

PMI® Authorized PMP® Exam Prep Course

Version 3.2 Student Workbook

Using this Student Workbook

Your instructor will cover a large volume of material in the training. This Student Workbook is designed to help you follow along, give you a space to take notes, and focus on some of the more detailed content your instructor may present.

The thumbnail images of the slides are placemarkers. Please view the slide detail on the PDF copies of the slides provided.

Please note: Like projects, your instructor's approach will be unique to them, so while this Student Workbook follows the course design, your instructor's sequence or emphasis may vary.

We have included resources from PMI.org and other relevant sources to further your understanding of the topics or contexts.

Good luck with your preparations.



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INTRODUCTION





Welcome

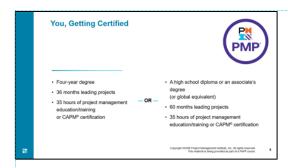
Welcome to the course! You'll learn a little more about the Project Management Institute and the PMP® in this short introduction.

This course enables you to further your project management skills, apply a formalized and standards-based approach to project management and prepare for the Project Management Institute (PMI®) Project Management Professional (PMP®) certification exam.



	·
Your Instructor	Your Instructor
[Instructor Name Here] - Click Icon to add picture [Contact] [Years of X]	Meet your instructor!
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Your interactivity with this workbook will vary, depending on the PDF reader you are using. Blank areas are fillable fields, and you will find several tables in the workbook that you can fill in with notes. Also use the pen or highlighter feature on this document.

You, Getting Certified

This course is for individuals who:

- Have on-the-job project management experience, regardless of whether their formal job role is project manager
- Are not certified project management professionals; and
- Might or might not have received formal project management training.

To ensure success in this course, you should have experience with basic project management concepts and the requirements to apply to take the PMP certification exam.

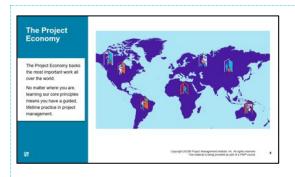
This course fulfills the requirement of 35 hours of project management education/training.

- Four-year degree
- 36 months leading projects
- 35 hours of project management education/training or CAPM® certification

OR

- A high school diploma or an associate degree (or global equivalent)
- 60 months leading projects
- 35 hours of project management education/training or CAPM[®] certification





The Project Economy



2022 Jobs Report video (2m 33s)

The <u>"Project Economy" video</u> Video (1m: 21s)

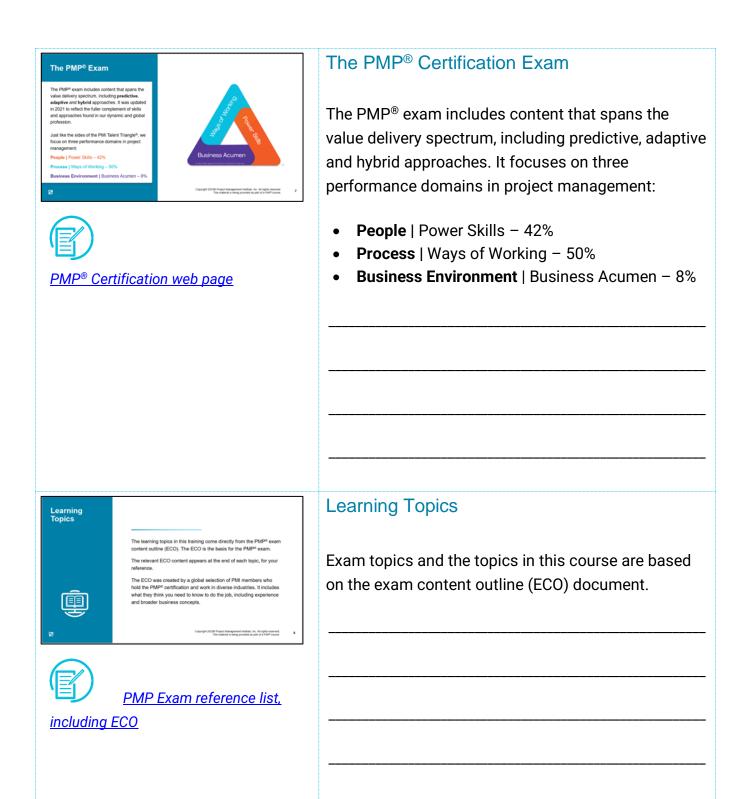
If your instructor does not also show the
"Project Economy" video, you can view it at
your leisure.

Both videos are accessible in the Logical Operations CHOICE dashboard, in case these links are inoperable.

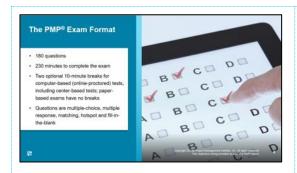
To further explore the PDU requirements, you can access the Spotlight on Earning PDUs presentation from the Spotlight tile on the CHOICE Course screen.











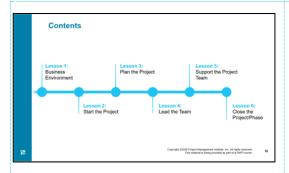


PMP® Certification web page

The PMP® Certification Exam Format

- 180 questions
- 230 minutes to complete the exam
- Two optional 10-minute breaks for computerbased (online-proctored) tests, including center-based tests; paper-based exams have no breaks
- Questions are multiple-choice, multiple response, matching, hotspot and fill-in-theblank





This slide depicts the content of the course. Over six lessons, we'll get you ready for the PMP® certification exam.

Contents

Lesson 1: Business Environment

Learn foundational project management, organizational and business concepts integral to your role.

Lesson 2: Start the Project

We'll discuss what you need to think about right at the start of a project, in the pre-planning stage – stakeholders, the team, and how to build shared understanding and decide how best to approach the project.

Lesson 3: Plan the Project

Here we go through the steps you'll take to plan scope, schedule, budget, resources, risks, and quality.

Lesson 4: Lead the Team

In this lesson, we focus on your leadership skills.

Lesson 5: Support Project Team Performance

How do you get the best performance from a project team? Here are the tools, techniques, and further leadership skills to help you do that.

Lesson 6: Close the Project/Phase

Finally, we discuss how and when to close a phase or project and the very important topic of benefits realization.







Some key terms appear on the training slides—the definition appears as a click-out on the left. However, if you missed it during class, don't worry! All the key terms in this course are in the glossary.

You'll find these icons throughout this Student Workbook, the Case Study — and on the training slides themselves. They label the action, tool, or characteristic described according to development approach.

Predictive icon



Arrows indicate driving work with a high degree of certainty forward

Adaptive icon



Circular trajectory of work or development regulated by intervals

Hybrid icon



A tailored combination of predictive and adaptive approaches

About This Course

We've included a glossary of terms that are important for understanding the PMI® approach to project management and which also addresses commonly known global project management and related business concepts and methods.

Glossary definitions have been sourced from PMI Standards and appropriate external sources; some have been tailored by our subject matter experts.

You will see the following icons throughout the slides and this workbook.



Important



Interactive



Use Expert Judgment



Tools/Techniques



Question

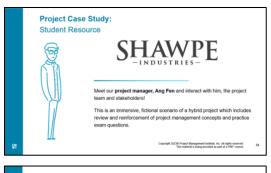


Discussion



Note









Read more about the case study on the next page!

Project Case Study: Student Resource

This course includes a self-study component that will help you visualize and review the concepts you learn from your instructor.

We follow Shawpe Industries, a medium-sized (150 employees) commercial real estate development company, as they undertake their most exciting project yet!

You will see some of the graphics and characters from the case study in the PowerPoint slides and in this Student Workbook.

- Duration: 2 hours
- This case study is self-scored and optional.



Let's Get to Work!

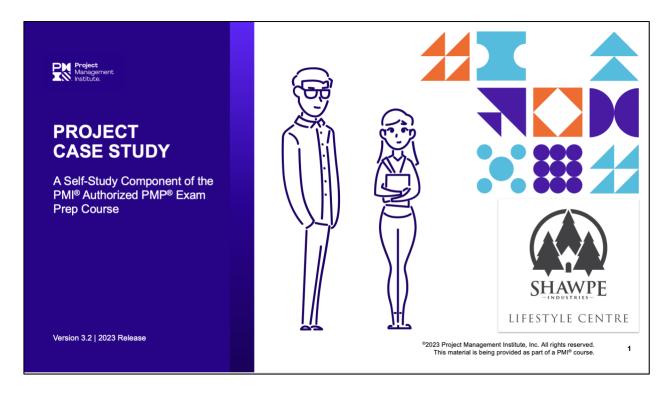
Make yourself comfortable.

Open the **student copy of the PowerPoint decks** on another screen or window and view the full-size versions alongside this document.

The slides are presented as thumbnails here for your visual reference and place marking.



Shawpe Lifestyle Centre (SLC) Case Study



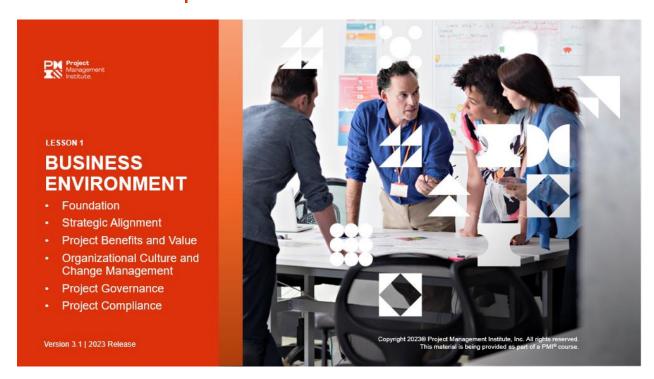
Work alongside a project manager, stakeholders, a product owner, and a project team! Through this case study, you'll learn more about project roles, leadership techniques, how teams use project management artifacts and, of course, project management practices—in a visual and practical way! The case study simulates the scenario-based question approach of the PMP® certification exam questions.



The SLC project is imagined and aligned with the vision and values in the <u>PMI Strategic Plan – Shaping the Future - Together (2021-2025)</u>, which can be downloaded from PMI.org. As a formal introduction to the PMI community, we invite you to peruse it.



LESSON 1 | BUSINESS ENVIRONMENT



Description

This lesson addresses the concepts and business areas that you should understand before starting a project, supporting learning related to the "Business Environment" domain in the exam content outline (ECO) and the "Business Acumen" side of the PMI Talent Triangle.

Central to this lesson is determining the purpose and expectation for the project, as well as the parameters and expectations of the project within the business.

Having a sharp strategic business acumen and a good foundation in modern project management will enable you to quickly determine the purpose and expectation for a project.



While you will not be tested directly on the foundational concepts from any of the PMI Standards such as the Guide to the Project Management Body of Knowledge (PMBOK® Guide), you should understand the concepts in that standard as well as have familiarity with the PMI lexicon and frameworks.



Topics

- A. Foundation
- B. Strategic alignment
- C. Project benefits and value
- D. Organizational culture and change management
- E. Project governance
- F. Project compliance



For each lesson, your instructor works with a set of learning objectives. This tells you what level and type of knowledge you should have in preparation for the exam.

Learning Objectives

- Define 'project' and how it relates to the larger discussion of project management.
 - Discuss the different types of organizational structures and how they relate to your project's management.
 - Discuss the principles of project management.
 - Discuss the principles of agile and how they relate to your project's management.

- · Discuss strategic alignment and its elements.
 - Explain the impact of business factors on strategic alignment.
 - Determine how projects align with business strategy.
- Identify types of business value.
- Describe change management theory and its relation to organizational change.
- Define and discuss project governance.
- Explain project compliance and its importance.

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Lesson 1 Notes

TOPIC 1A | FOUNDATION

Topics Covered

- Foundational project management concepts
- Project management principles
- The Agile mindset
- Tailoring hybrid approaches, processes, and practices in project management



Topic 1A: Foundation

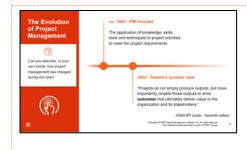
This section covers the foundational concepts in project management, updated to include content from the 2021 publication of the *A Guide to the Project Management Body of Knowledge (PMBOK® Guide)* – Seventh Edition.

Project Management Professional (PMP)® certification candidates should not expect to be tested directly on some of these concepts from the Seventh Edition, but they should be aware that the exam content is built with an understanding of these concepts



		Droject
Drainat		Project
Project	A project: - Creates a unique product, service or result - Is time-limited - Drives change - Enables value creation for a business or organization - Project success depends on: - Organizational project malurity	A project:
	Project manager effectiveness Funding and resource availability Team member still livevis Collaboration and communication within the team and with key stakeholdens	
탶	Understanding of the core problem and related needs - 2023 Project Management habita, inc. 4d often swared. This indential siving provided as part of a PPP course. 4.	
		Project success depends on:





The Evolution of Project Management

Can you describe, in your own words, how project management has evolved?

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Further optional reading:

- "What is project management?"
- "History of PMI"





Project Management Life Cycles and **Development Approaches**

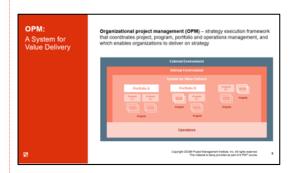
Take notes on this table!

	Description	Key Roles	Value Delivery Proposition
Predictive			
Adaptive			
Hybrid			



Project Management	PMOs can be:	Directive	Project Management Office
Many large and established project oriented organizations have a PMO, put PMOs are not a requirement for project management practice.	Supportive Develop best practices, methodologies, standards and templates Coach, methodologies, standards and templates Coach method, trian, guide project managers Carteolling Mediate compliance with project management standards, policies, pocodures and templates we project audits Over	Minage shared misoracres Coordinate convariation across projects Agile Centers of Excellence (ACodia) ata Value Delivery Office (VDC) ACoEs enable, rather than manage, project efforts Coach haans Build agile minded, skills and capabilities throughout the organization Menors sponsors and product owners.	General notes on PMOs:
			Types of PMOs:
			Supportive
			Controlling
			Directive
			Agile Centers of Excellence (ACoEs)





Organizational Project Management (OPM): A System for Value Delivery

- Identify relationships between projects, programs, and portfolios.
- Describe where and how projects reside, in relation to the business' operations and the internal and external environment.
- Explain how this system for value delivery works
 i.e., systems interactions

 •
 •





Projects, Programs and Portfolios

Do you understand how project management lines up with program and portfolio management within an OPM framework?

	Definition/Description	Purpose
Portfolio		
Management		
Program		
Management		
Project		
Management		



Organizational Structures		Organizational Structures
Functional Matrix Project-oriented Composite	Organizational structure and governance affects/determines: How organizational groups and individuals interrelate How much authority the project manager has What resources will be available How the project will be conducted	Four types:
e	Copyright 2008 Project Management Holdus, Inc. 45 rights seasoned. She natured it long animals as and it is 175° moves. 100	
		Financial based structure and governance
		affects/determines:
		 How organizational groups and individuals interrelate
		How much authority the project manager hasWhat resources will be available
		How the project will be conducted





Relative Authority in Organizational Structures

This slide helps you to better understand the project manager's role in various types of organizational structures. Take notes in the table, below.



The SLC case study uses the point of view of a project manager to explore the role further!

	Functional	Matrix	Project-oriented
Team			
member			
loyalty			
Team			
member			
reporting			
Project			
manager role			
Team			
member role			
Project			
manager's			
control over			
team			
members			





Activity



Think of your current or a recent project. Can you identify the organizational structure type and describe how it affects your project in the following ways?

How organizational groups and individuals interrelate
The project manager's authority
Resource availability
How the project is conducted



We suggest taking some time to reflect on the discussion points throughout the course, as they help toward providing a scenario-based context for learning topics.

Remember that the PMP® certification exam questions are scenario based!



Project Management Principles Guidance for All Project Practitioners a. Be a diligent, respectful and caring steward b. Recognize, evaluate and respond to system interactions c. Navigate complexity d. Crisate a collaborative project fearm environment e. Democrative bederants behaviors f. Optimize nisk responses g. Efficiency engage with stakeholders h. Taker based on context i. Embrace adaptability and resiliency j. Focus on value k. Build quality into processes and deliverables i. Endelse charge to achieve the envisioned future state Comment complexity General Confidence of the programment of the Am of Optimization Confidence of the programment of the Am of the state Confidence of the programment of the Am of the state Confidence of the programment of the Am of the state Confidence of the programment of the Am of the state Confidence of the programment of the Am of the state Confidence of the programment of the Am of the state Confidence of the programment of the Am of the state Confidence of the programment of the Am of the state Confidence of the programment of the Am of the state Confidence of the programment of the Am of the state Confidence of the programment of the Am of the state Confidence of the programment of the Am of the Am of the state Confidence of the programment of the Am of the Am of the state Confidence of the programment of the Am of the State Confidence of the programment of the Am of the State Confidence of the programment of the Am of the State Confidence of the programment of the Am of the State Confidence of the programment of the Am of the State Confidence of the State C



The principles are identified by letter on the slide for your instructor's use in referencing them later. However, the principles are not in any order of importance.

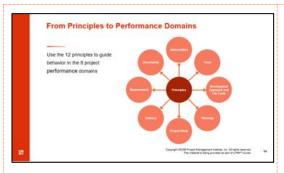


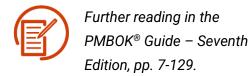
Further reading: The
Standard for Project
Management, pp. 21-60.
(Inside the PMBOK® Guide
– Seventh Edition)

Project Management Principles

- Be a diligent, respectful and caring steward
- Recognize, evaluate and respond to system interactions
- Navigate complexity
- Create a collaborative project team environment
- Demonstrate leadership behaviors
- Optimize risk responses
- Effectively engage with stakeholders
- Tailor based on context
- Embrace adaptability and resiliency
- Focus on value
- Build quality into processes and deliverables
- Enable change to achieve the envisioned future state







From Principles to Performance Domains

The 8 project performance domains are:

- Stakeholders
- Team
- Development approach and life cycle
- Planning
- Project work
- Delivery
- Measurement
- Uncertainty

•

A project performance domain is a group of related activities that are critical for the effective delivery of project outcomes.

Collectively, the performance domains represent a project management system of interactive, interrelated, and interdependent management capabilities that work in unison to achieve desired project outcomes.

other, change occurs.		







2023 Project Management Institute

Principles Behind the Agile Manifesto 1 to 6	1. Our highest priority is to satisfy the customer through early and continuous delivery of valuable software. 2. Welcome changing requirements, even late in development. Agile processes harness change for the customer's competitive advantage. 3. Deliver working software frequently, from a couple of weeks to a couple of months, with a preference to the shorter timescale. 4. Businesspeople and developers must work together daily throughout the project. 5. Build projects around motivated individuals. Give them the environment and support they need and trust them to get the job done. 6. The most efficient and effective method of conveying information to and within a development team is face-base convenation. 6. General Pill the development which is not greatered and trust them to get the job done. 6. General Pill the development which is not greatered and trust them to get the job done.	 Our highest priority is to satisfy the customer through early and continuous delivery of valuable software. Welcome changing requirements, even late in development. Agile processes harness change for the customer's competitive advantage. Deliver working software frequently, from a couple of weeks to a couple of months, with a preference to the shorter timescale. Businesspeople and developers must work together daily throughout the project. Build projects around motivated individuals. Give them the environment and support they need and trust them to get the job done. The most efficient and effective method of conveying information to and within a development team is face-to-face conversation.



Principles Behind the Agile Manifesto 7 to 12	7. Working software is the primary measure of progress. 8. Agile processes promote suntainable development. The sponsors, newborn, and users should be able to marrialn a constant pace indefinitely. 9. Continuous attention to benincial excellence and good design enhances agility. 10. Simplicity— the art of maximizing the amount of work not done — is essential. 11. The best architectures, requirements, and designs emerge from self-organizing beams. 12. Air require intervals, the sam reflects not not to become more effective, then tunes and adjusts its behavior accordingly. 13. The design intervals are sam reflects not not be to the progression of the same self-organized that the same self-organized the same self-organized that the	 Principles Behind the Agile Manifesto: 7-12 Working software is the primary measure of progress. Agile processes promote sustainable development. The sponsors, developers, and users should be able to maintain a constant pace indefinitely. Continuous attention to technical excellence and good design enhances agility. Simplicity – the art of maximizing the amount of work not done – is essential. The best architectures, requirements, and designs emerge from self-organizing teams. At regular intervals, the team reflects on how to become more effective, then tunes and adjusts its behavior accordingly.



Tong Agile vs. Beng Agie Agile mains. **Iterations are likely to be shorter **Product in more likely to service based on statundation feaculable. **State used for southernesses, and agile processes have been applied to other kinds of development, and any the agin movitor. **Adopt a flooder, change-frontly way of treating and behaving. **Understand the purpose of these practices. **Stated and registered appopulation bened on context. **Information agile volture, munded and behavior. **To seek a forgetiment approach as an extra first maintained and active and active and active and active active and active active and active acti	Agile: The "Far Side" of Adaptive Approaches What's the difference between "doing agile and being agile?" In general, agile means: Explain how agile software development principles are applied to other kinds of development projects, vis-à-vis the agile mindset:
Tailor Projects to Contexts Because each project is unique, we adapt methods to the unique project context to determine the most appropriate ways of working to produce the desired outcomes. Tailor iteratively and continuously throughout the project Tailor iteratively and continuously throughout the project Congress 2008 from throughout state, in it is part context. The reverse fine greater as not a first first context.	Tailor Projects to Contexts Define 'tailoring' and describe how it is done:



Tailor Hybrid Approaches, Processes, Practices and Methods Apply product knowledge, delivery cadence and awareness of the available options to select the most appropriate development approach. Tailor processes for the selected life cycle and development approach, include determining which portions or elements should be added, modified, recovered, lenderal, and/or algular and culture. Tailor practices and methods to the environment and culture.	Tailor Hybrid Approaches, Practices, and Methods Notes on what we mean by 'hybrid' in project management:
Foundational project management concepts Project management principles Tha Agile mindset Talloing — Pubrid approaches, processes and practices in project management	End of Topic 1A



TOPIC 1B | STRATEGIC ALIGNMENT

Topics Covered

- Define strategic alignment and business acumen
- Follow guidelines for effective business decision-making
- Explore organizational influences on projects
- Explain how projects align with broader organizational strategy and global trends

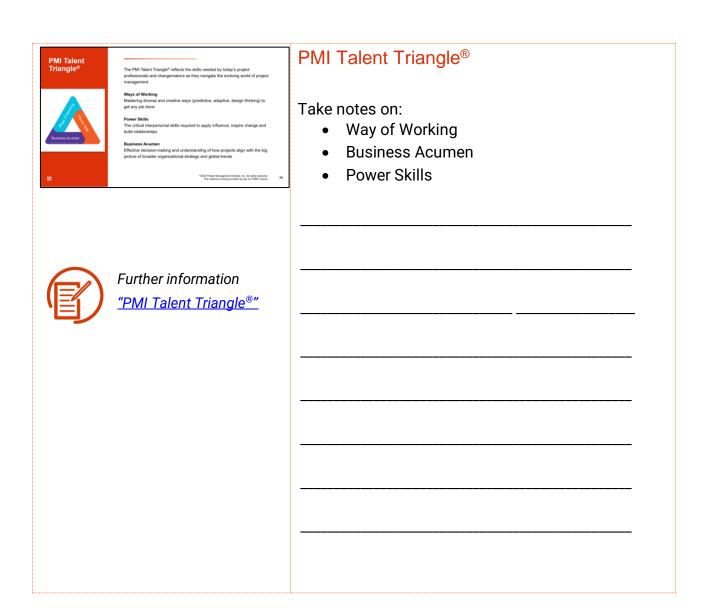


Topic 1B: Strategic Alignment

Professionals at all levels need to be able to cultivate effective decision-making skills and understand how their projects align with the big picture of broader organizational strategy and global trends.

And because today's projects demand a broad set of skills and capabilities, PMI will continue to focus on giving you the tools and insights you need to develop new skills and tackle your next project challenge.









Identify any gaps in your knowledge and plans for how to fill them:

Strategic Alignment and Business Management Skills

Reflect on these questions and skill sets for project professionals.

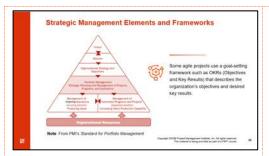
Do you:

- Know your organization's strategic plan?
- Understand how project goals matter to an organization's long-term vision and mission?
- See a high-level overview of the organization?
- Have a working knowledge of business functions?
- Have pertinent product and industry expertise?

Can you:

- Explain the essential business aspects of a project?
- Work with SMEs and a sponsor to develop an appropriate project delivery strategy?
- Implement strategy to maximize the business value of a project?



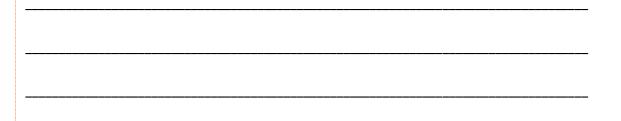


Strategic Management Elements and Frameworks

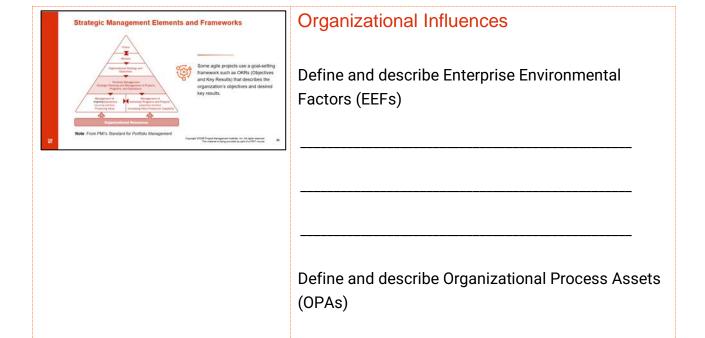
- Vision: Where the business wants to go (aspirational)
- Mission: Its pre-established objective or purpose
- Objectives: Defined areas of pursuance
- · Goals: Milestones, resources
- Strategies: Resources used to accomplish organizational purpose
- Programs/projects
- Operation procedures (SOPs)



Note: From PMI's Standard for Portfolio Management







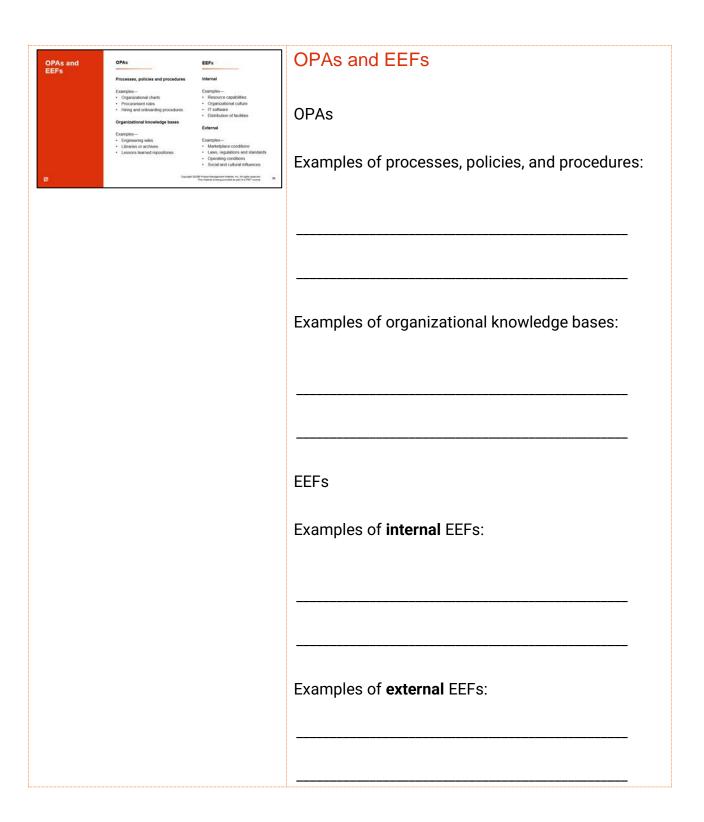


Get to Know the External Business Environment Use transecrits or prompts to understand external factors that can introduce risk, uncertainty, or provide opportunities and affect the value and desired outcomes of a project. - PESTLE: Posticial, economic, socio-cultural, sechnical, legal, environmental - TECOP: Technical, environmental, commensal, operational, posticial - VUCAC-Validate, uncertainty, complexity, embiguity In addition, review: - Comparative edivertables enabysis - Selvior (shengths, weaknesses, opportunities and threats) analysis - Assumption analysis - Risk alignment with organizational strategy (security 2014 and 1994) and the security of	Get to Know the External Business Environment PESTLE is an acronym for:
Use frameworks or prompts to understand external factors that can introduce risk, uncertainty or provide opportunities and affect the value and desired outcomes of a project.	TECOP is an acronym for:
	VUCA is an acronym for:
	What are other tools used to understand the external business environment? Include any your instructor mentions or that you know.



Internal Business Environment Factors Organizational changes can dramatically impact access	Internal Business Environment Factors
The project manager, project sponsor or product owner need to be familiar with business plans, reorganizations, process changes and other attental activities internal business changes might cause. Need for new deliverables Reprostructation of value, including	Organizational changes can dramatically impact
removal of existing deliverables	
	Which project roles pood to be familiar with
	Which project roles need to be familiar with business plans, reorganizations, process changes and other internal activities?
	und other internal detivities:
	Internal business changes might cause:









Activity: Identify OPAs and EEFs

- a. Economic demand for a new shopping area
- b. Historical society (conservation) building regulations
- c. Local neighborhood demand for a better town center
- d. Archive of past large infrastructure projects
- e. Approved vendor and contractors list
- f. Tenant selection process

Which are OPAs and which are EEFs?		



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TOPIC 1C | PROJECT BENEFITS AND VALUE

ECO Coverage

- 3.2 Evaluate and deliver project benefits and value
 - Investigate that benefits are identified (3.2.1)
 - Evaluate delivery options to deliver value (3.2.4)
- 2.1 Execute project with the urgency required to deliver business value
 - Assess opportunities to deliver value incrementally (2.1.1)



Topic 1C: Project Benefits and Value

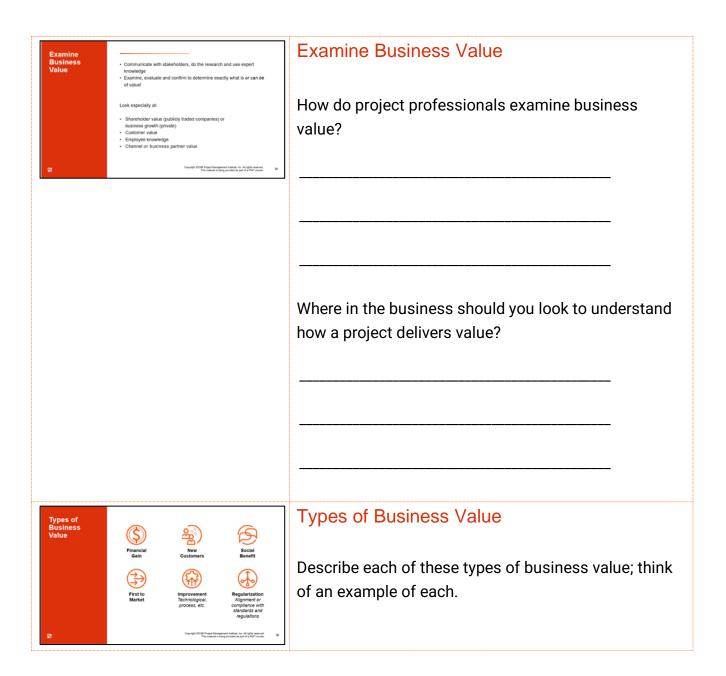
Project managers need to think strategically and ensure that project results provide the expected outcomes (benefits and values) to the organization.

These benefits and values should be understood at the beginning of the project, reassessed throughout the project effort, and validated at the end of the project – even though in many cases the actual determination of the benefit will not be apparent until long after the project has been completed.



Business Value	Business Value	
The net quantifiable benefit (tangible and/or intangible) dentified from a business endeavor Part of the objectives of description of the project in the initiating algoements Benefits realization is based on declared business value.	Define business value	
	Describe how projects deliver business value:	











New customers



Social benefit





Improvement (technological, process, etc.)

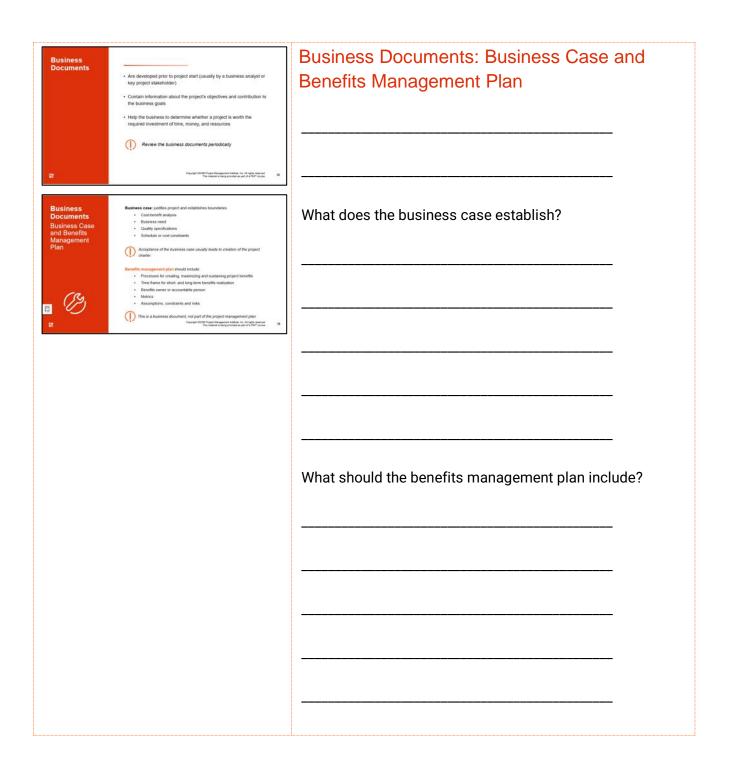


Alignment or compliance with standards or regulations



Needs Assessment Obtain Data for the Project	Usually performed by a business analyst Precedes the business case Involves understanding of: Business goals and objectives Issues and occordinates	Needs Assessment: Obtain Data for the Project
Note: From Business Analysis for Practitoners: A Practice Guide	Recommends proposals to address: What should be done Constraints, assumptions, risks and dependencies Success measures Inglementation approach Complete the Constraint of the	Who usually performs a needs assessment?
		What kind of data does a needs assessment include?
		How does a needs assessment help to direct a project?









Benefit Measurement Methods

Business-based

• Estimate payback period:

Assess opportunity cost:



Though you won't need to do these calculations on the exam, you should know that for business-based benefit measurement methods, "smaller is better" and for financial-based benefit measurement methods, "bigger is better."

Financial-based

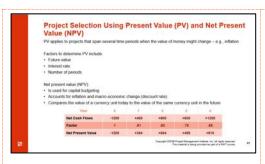
Cost-benefit analysis

Opportunity cost

• Internal rate of return (IRR)

• Return on investment (ROI)





Project Selection Using Present Value (PV) and Net Present Value (NPV)

Ensure that you understand how estimates change for multi-year projects (PV) and how the formulas are used to select projects.

Î	1

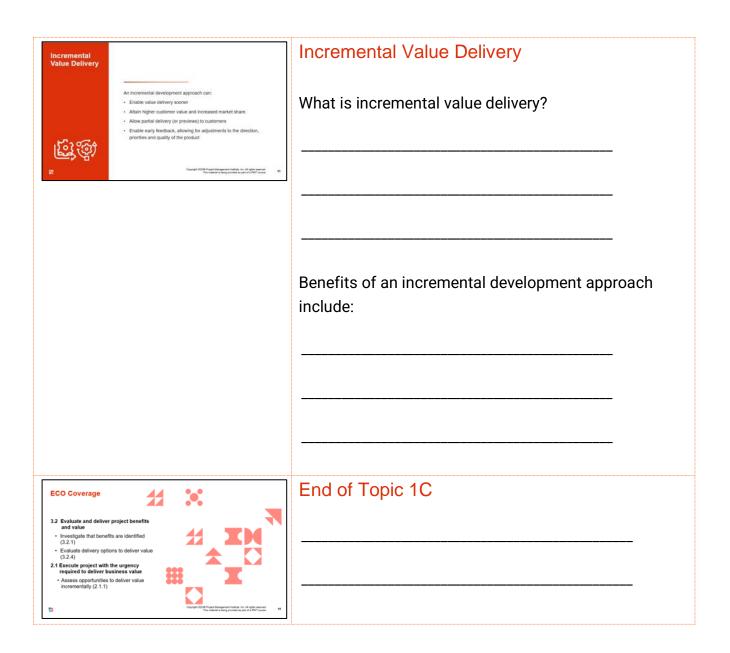
This information is normally provided to the project manager by the financial organization. You will not need to calculate this for the exam.

IPV – definition and description of use



How OKRs Help Deliver Business Value - Start with organizational objectives - Decide key desired results - Decide key desired results - Refine further with objectives and key results (OKRs): - Objectives are goals and intents - Key results are three-bound and measurable milestones under threse goals and entents - OKR best practices - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objective with between 3-5 measurable key results - Support each objec	How OKRs Help Deliver Business Value Define OKR
Optional further reading on this topic: "Strategic Planning and Lean Portfolio Management"	OKR best practices:







TOPIC 1D | ORGANIZATIONAL CULTURE AND CHANGE MANAGEMENT

ECO Coverage

- 3.4 Support organizational change
 - Assess organizational culture (3.4.1)
 - Evaluate impact of organization change to project, and determine required actions (3.4.2)
 - Evaluate impact of the project to the organization and determine required actions (3.4.3)







PMI calls this the systems approach to project management. It includes an understanding of change management. However, this is NOT the same as change control management.

Topic 1D: Organizational Culture and Change Management

Projects create and deliver change, and change is often the catalyst for the authorization of a project. Arguably, change is the single biggest factor in business decisions.

Envisioning your project as part of the organization in which it "lives" means being part of any change initiative that the organization takes. This will mean adapting your project as well as realigning it with the changing business objectives.

In addition, it is important to understand how organizations typically work, then consider a few different project management setups, and finally how project managers and PMOs roll out and support change initiatives in organizations.

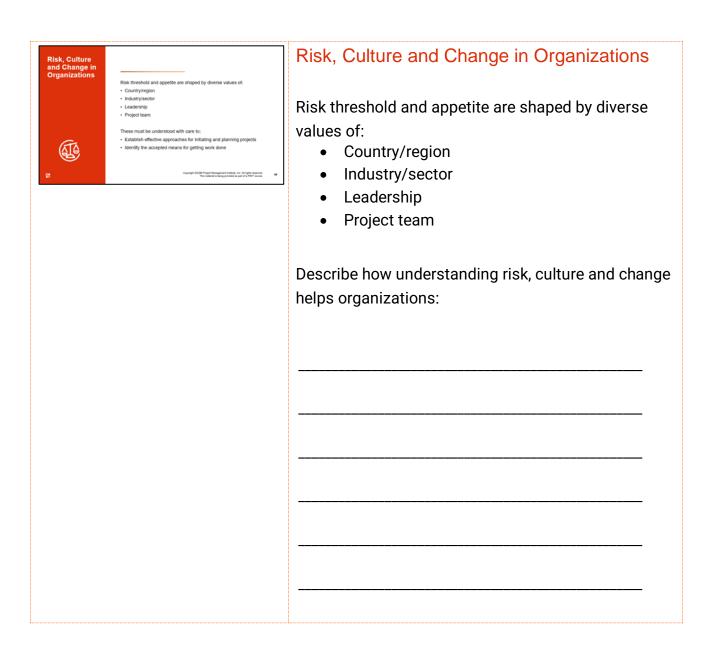


Change Manageme Organizations embrace chan strategy PMOS build and sustain align between projects and the org tweether your organization had rolled to a strategy or croumstances, people a Use a robust approach	ge as a mend anization, na PMO ser1	Change Management Definition and description:
	This is not the change control management topic.	
	Further reading: PMBOK® Guide – Seventh Edition, section X3.3	How does organizational culture affect change and change management?











Change Management Framework	"Organizational change requires individual change"	Change Management Framework
	The ADKAR® model names five milestones an individual must achieve in order to change successfully: • A – Awareness of the need for change • D – Desire to support the change	Describe the ADKAR® change management
(%)	K – Knowledge of how to change A – Ability to demonstrate new skills and behaviors R – Reinforcement to make the change stick	framework:
or .	Copyright 2008 Proportion processes in the Section Secured. This research being provided as part of 9780° mones. 88	
		Did your instructor mention / do you know of any others?



Actions to Support DO TONT - Coach co-workers to support the business — politerior and compassionate mentoring are key - Enable an agile operating system - Coach tram members in agile to facilitate adoption of a change-centered mindset - Keep knowledge current — Continuously improve processes and knowledge	Actions to Support Change			
DO:		DON'T:		



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Plan for Ch	nange		
		 	



PMI's resources on change management





Learn more about

the <u>Organizational Transformation</u> <u>course for PMP® certification</u> <u>holders here (Foundation level)</u>

Organizational Transformation for Project Practitioners

Five Building Blocks for organizational transformation:

- North Star statement
- · Customer insights and global megatrends
- Transformation operating system
- Internal volunteer champions
- Inside-Out Employee Transformation

Brightline® Compass

Organizational transformation, aka an enterprise-level change management framework requires:

3.4 Support organizational change

- Assess organizational culture (3.4.1)

- Evaluate impact of organization change to project, and determine required actions (3.4.2)

- Evaluate impact of the project to the organization and determine required actions (3.4.3)

End of Topic 1D

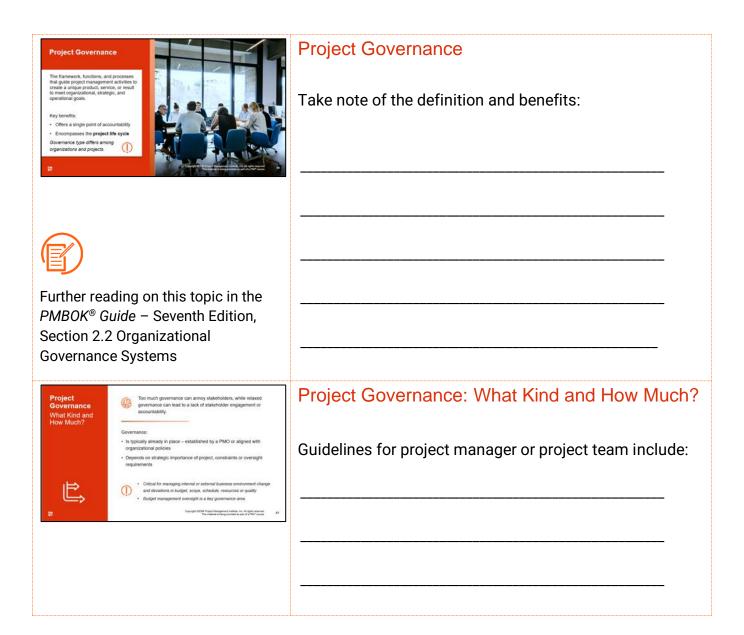


TOPIC 1E | PROJECT GOVERNANCE

ECO Coverage

- 2.14 Establish project governance structure
 - Determine appropriate governance for a project (e.g., replicate organization governance) (2.14.1)
 - Define escalation paths and thresholds (2.14.2)





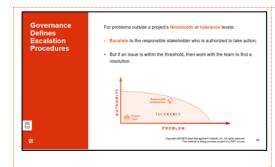


Project Governance Components Project Governance: Components Change Communication - Guidelines for aligning project geneand organizational strategy management plan - Project life cycle and development approach Processes for: ternal stakeholder alignment with project * Project organization chart with roles poess requirements * Project success and deliverable according to the control of the con Change Communication • Documentation — i.e., project management plan **Decision-making** Internal stakeholder alignment with project process requirements Review and approval of changes above project manager authority level Risk and issue identification, escalation, and resolution Stage gate or phase reviews Guidelines for aligning project governance and organizational strategy Project life cycle and development approach Project organization chart with roles Project success and deliverable acceptance criteria Relationship among project team, organizational groups, and external stakeholders

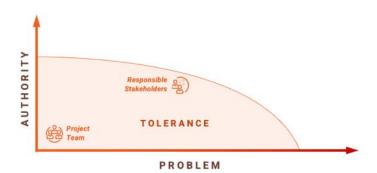


Governance in Adaptive Projects	Care: Document outputs and expectations Provide a clear view of project status from: Defined thration-sprint expectations and outputs Reseases led to specific dates "Real-time" monitoring of project output through daily standups Rerative approaches enable quicker and less costly identification of value-based outputs than predictive	Governance in Adaptive Projects How is governance handled in adaptive projects?
Governance Board aka Project Board or Steering Committee Does anythin have experience board Describe hour avoids with your project.	Provides project oversight May include project sponsor, senior managers and PMO resources May be responsible for: Reviewing lay deherables Providing guidance for project decisions Projects that use Sours or SAFe® use infermediary governance boards to fallise between the project and organizational governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use Sours or SAFe® use infermediary governance Onne 100 Projects that use SAFe® use infermediary governance Onne 100 Projects that use infermediary governance Onne 100 Projects that use SAFe® use infermediary governance Onne 100 Projects that use SAFe® use infermediary governance Onne 100 Projects that use SAFe® use infermediary governance Onne 100 Projects that use SAFe® use infermediary governance Onne 100 Projects that	Governance Board (aka Project Board or Steering Committee) Describe what a project governance board does:





Governance Defines Escalation Procedures

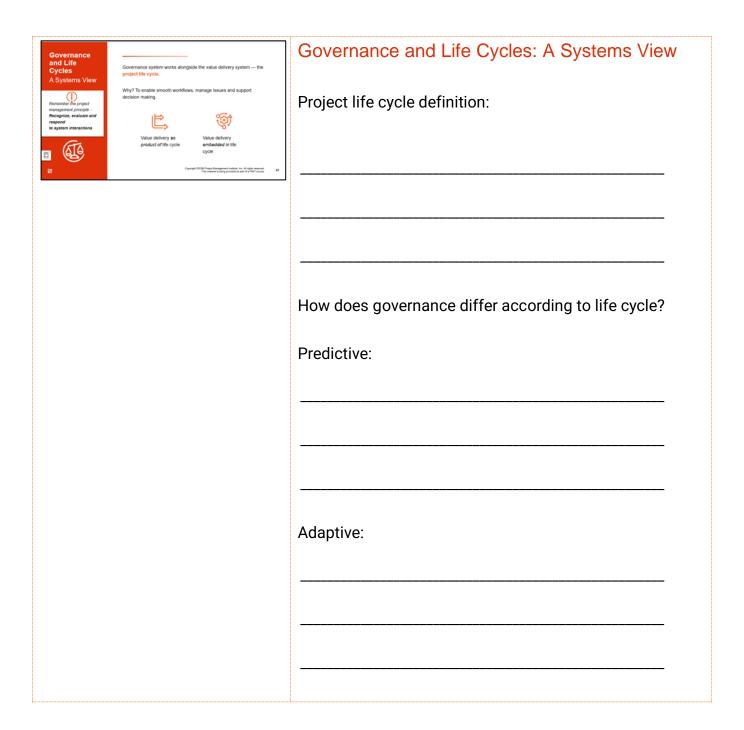


Threshold (Define and indicate where this is on the graphic.)

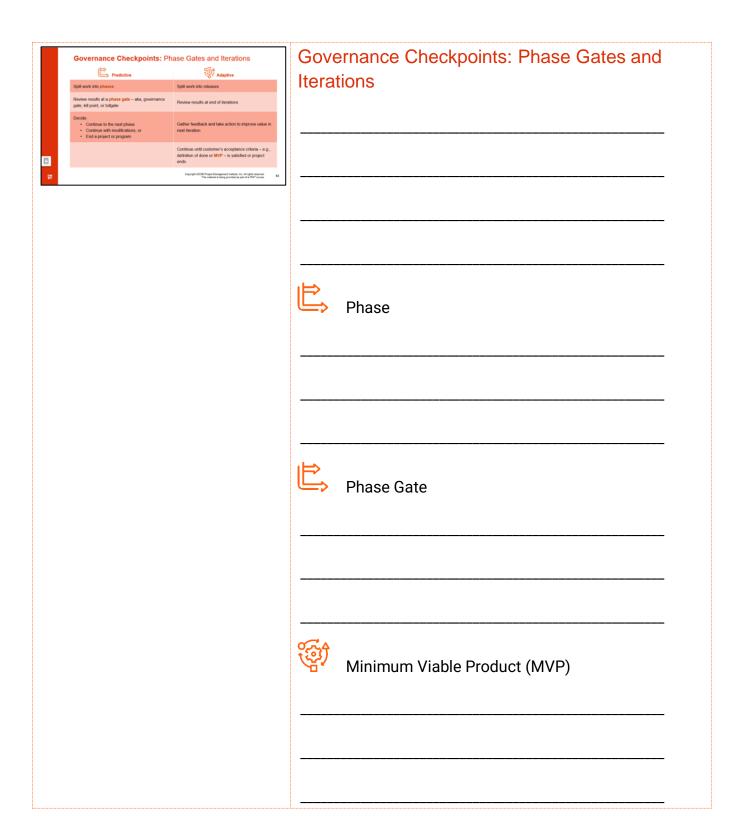
Tolerance

Escalate







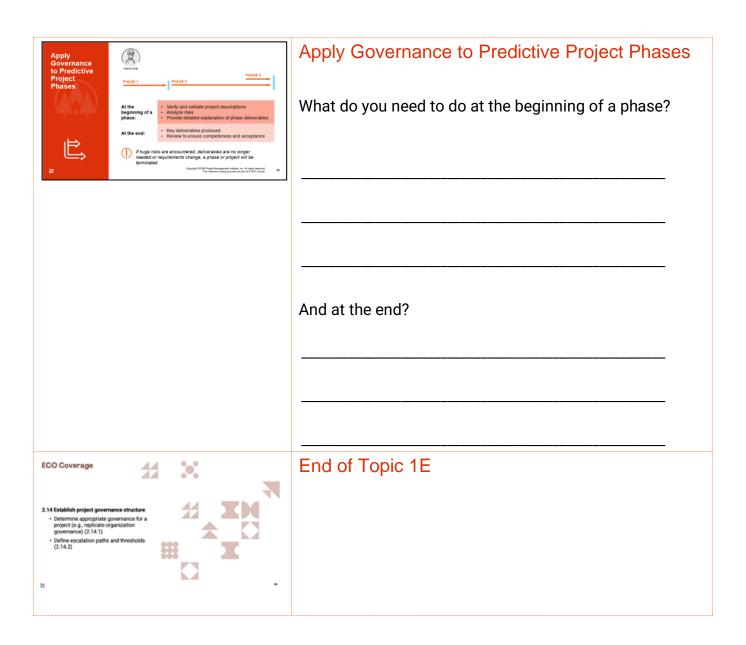








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TOPIC 1F | PROJECT COMPLIANCE

ECO Coverage

- 3.1
 - Plan and manage project compliance
 Confirm project compliance requirements (e.g., security, health and safety, regulatory compliance (3.1.1)
 - Classify compliance categories (3.1.2)
 - Analyze the consequences of non-compliance (3.1.5)



Topic 1F: Project Compliance

Compliance requirements must be understood and prioritized as the most important to deliver for a project.

Risk of noncompliance is one of the most serious threats to a project.

During a project, compliance requirements may change. The onus is on the project team to be aware and proactive about compliance.

This is part of your stewardship of a project that is the responsibility you undertake to care for the health of the project you lead; Stewardship is one of the project management principles named and discussed earlier in this lesson.



Larger, organizational-level compliance issues are discussed here. How to plan for compliance is discussed in Lesson 5, topic G, "Quality."



- Internal and external standards include: - Ooverment regulations - Corporate policies - Product and project quality - Project risk - PAIO monitors compliance at organizational level - Project trisk - PAIO monitors compliance at organizational level - Project trisk - PAIO monitors compliance of organizational level - Project trisk - Procurement and early experiment products - Procurement and work by vendors Corporate 2012 Arous finance and in Marya serval - Standard Standa	Compliance Include internal / external standards such as:	
	Roles / responsibilities:	
Compliance Requirements Legal or regulatory constraints include: - Requirements for specific practices - Standards - Privacy laws - Handling of sensitive information Quality: Tailor to your project — How much process rigor and quality control is	Compliance Requirements Legal or regulatory constraints include:	
Part of Control of Con		
	Quality-related:	





Why do

Why do we classify compliance matters? What problem does that help to solve?

Compliance Categories Classification

- Environmental risks
- Workplace health and safety
- Ethical/non-corrupt practices
- Social responsibility
- Quality
- Process risks

Categori	es vary	based	l on:		



Compliance Threats How to Investigate - Where/who in the organization handles compliance? - What legal or regulatory requirements impact the organization? - what legal or regulatory requirements impact the organization? - what is the organization to quality policy? - What is the organization aguility policy? - Are the team and stakeholders aware of compliance matters?	Compliance Threats: How to Investigate Guidelines or questions to ask:
	What is a quality policy?
Treat Compliance as a Project Objective Proactively tack and manage risks for compliance requirements Be prepared to perform quality audits Continuously validate logid and regulatory compliance for deliverables Continuously validate logid and regulatory compliance for deliverables Descriptions In an risk or delicational compliance register, include: The identified risk A response in register, include: Risk responses Larger organizations or those in highly regulated industries typically have a compliance department or officer. Congress of those in register includes in the continuous properties of the continuous properties. Congress of the continuous properties of those in highly regulated industries typically have a compliance department or officer.	Treat Compliance as a Project Objective Explain why compliance is so important to project health:
	Actions to take include:



Compliance Five Best Practices - Documentation: Updated compliance needs and risks - Risk planning: Prioritize compliance in risk planning - Compliance council: Includes quality/audit specialists and relevant legistrectricises depolatists - Compliance audit: Formal process - Compliance stewardship: It's your responsibility!	Compliance: Five Best Practices
Interactive/Activity Lefs fall about compliance. - Does your organization have a quality policy? - Do you know where to first the quality policy or standards for your projects? - What kinds of compliance activities are you involved with?	Activity: Think About Compliance Does your organization have a quality policy? Do you know where to find the quality policy or standards for your projects? What kinds of compliance activities are you involved with?



3.1 Plan and manage project compliance - Confirm project compliance requirements (e.g., security, health and safety, regulatory compliance (3.1.1) - Classify compliance categories (3.1.2) - Analyze the consequences of noncompliance (3.1.5) - Compliance (3.1.5)	End of Topic 1F	
End of Lesson 1 Find the large and which is a first property and in a first party and the first party and	End of Lesson 1	





Lesson 2: Start the Project

Description

Lesson 2 includes topics in the "People" and "Process" domains of the ECO, but covers knowledge related to all three sides of the Talent Triangle – e.g., exploration of project team and stakeholder roles and tailoring development approaches to a project so that it delivers value for the business.

Let's review the concepts and processes related to starting a project!



Learning Objectives

- · Define and discuss stakeholders and the most effective ways to communicate with them.
- Explain the best ways to form a team.
- Describe how to build the most effective understanding of a project and how doing so relates to executing a project successfully.
- Explain how predictive and adaptive project life cycles work; explain what a hybrid development approach is.
 - · Decide which kind of development approach or life cycle is best suited for work.

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2

Topics

- A. Identify and engage stakeholders
- B. Form the team
- C. Build shared understanding
- D. Determine project approach



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Lesson 2 Notes

TOPIC 2A | IDENTIFY AND ENGAGE STAKEHOLDERS

ECO Coverage

- 1.9 Collaborate with stakeholders
 - Evaluate engagement needs for stakeholders (1.9.1)
- 2.4 Engage stakeholders
 - Analyze stakeholders (power interest grid, influence, impact) (2.4.1)
 - Categorize stakeholders (2.4.2)
 - Develop, execute, and validate a strategy for stakeholder engagement (2.4.4)
- 2.2 Manage communications
 - Analyze communication needs of all stakeholders (2.2.1)
 - Determine communication methods, channels, frequency, and level of detail for all stakeholders (2.2.2)



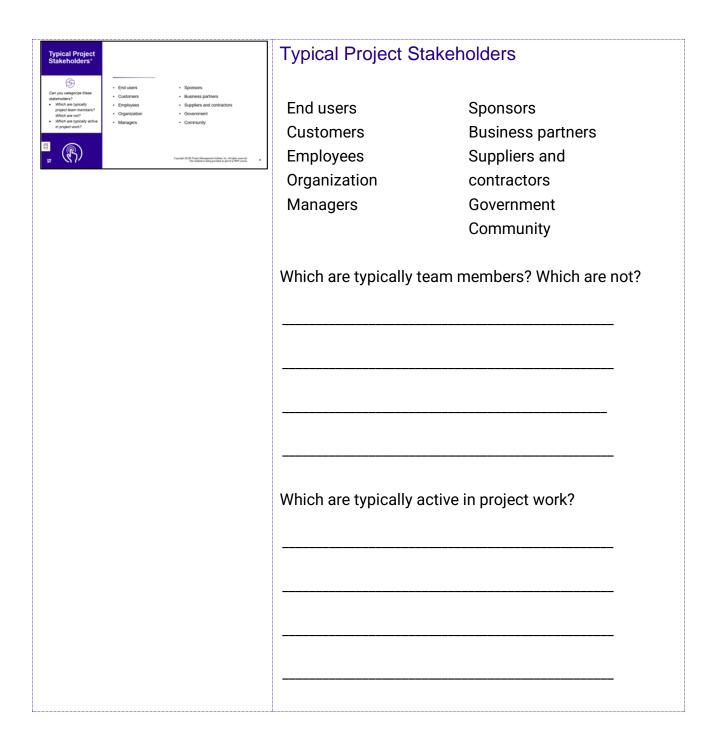


Topic 2A: Identify and Engage Stakeholders

Start projects with the stakeholders in mind, establish effective relationships and communication with them and maintain a focus on what the project means for them individually (or as a group).

You will spend a lot of time communicating with stakeholders, so good relationships are essential. In this topic, we explore how to identify and engage project stakeholders. In Lesson 4 of this course, we return to the topic of stakeholder management to discuss how to best communicate and collaborate with stakeholders on the project.







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Stakeholder and Communications Management Overview	Stakeholder and Communications Management
Stakeholder register Stakeholder registeren stan Communications management plan Communications management plan Stakeholder engagement assessment matrix (EEAM) Assessment grafs it matrices / models	How do you find out who the stakeholders are?
The state of the s	
	How do you determine their relationship to the project?



Assess Stakeholders Dens Gathering - Questionnaires and surreys	Assess Stake	holders
Brainstorning Data Analysis	Stakeholder and	llysis tools/techniques
	Data gathering to	ools/ techniques
	Data analysis to	ols/ techniques
	Data representa	tion tools/ techniques



Create the Stakeholder Register	Capture and record important stakeholder information Factor in OPNs Update of Describe the evolving relationship with stakeholders throughout the project Condains the information necessary to execute the stakeholder engagement plan
	Refer to stakeholder registers from previous, similar projects for help projects for help. Remember this is a public document, so ensure the information presented is appropriate.
28	Copyright 20030 Proposit Management trialfolds, Inc. All rights conserved This industrial in falling provided as part of a PASP course.

Create the Stakeholder Register

Stakeholder register definition

Stakeholder Register



	Name	Title	Internal / External	Project Role	Major Requirements	Expectations	Influence / Attitude
1	Eugene Lowe	CEO	Internal	Sponsor	Successful completion	On-time completion, successful partnerships	Champion
2	Oasestown Municipality		External	Government partner (liaison); funding contributor; owner of SLC site	Successful completion of facility and partnership;	Accountability	Supporter
3	Kara Black	Principal, Oases Architects	External	Partner, designer, specialist knowledge (conservation building)	Clear design brief, successful partnership	Fluid funding and communication, design autonomy	Champion
4	Josie Bynoe	Chair, BOD	Internal	Direct strategic local partnerships for Shawpe	Environmental sustainability of project work; "moral rights"	No damage to Oasestown conservation district or environs	Resistor
5	Helen Grey	Lead, business development	Internal	Product owner	High profile tenants, excellent community and conservation credentials	Organizational learning; leadership opportunity	Neutral
6	Hasan Persaud	VP of Business Development	Internal	Portfolio owner	Capacity for ongoing revenue	End-user in Phase 3	Neutral
7	Mandeep Chahal	VP of Finance	Internal	Budget controller	direct contact with funding partners	clear data	Neutral
8	Kei Leung	VP of Marketing	Internal	Marketing expert	elevation of brand	high quality tenants	Supporter
9	Tenants		External	Income source	bespoke spaces	high quality	Neutral
10	Contractors		External	Vendors - building	clear instructions, contract		Neutral
11	Oasestown local residents		External	Neighbors to project	Traffic and noise pollution management	no inconveniences	Resistor
12	Oasestown Community Partnership		External	Community group operating in Oasestown	none	a free space in the SLC	Champion

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This stakeholder register example is from the Shawpe project case study.



Find and examine the following in the stakeholder register:

Profile information:

- Name or organization: Stakeholders can be individuals or entities
- Title: Their functional position in the organization or elsewhere
- **Project Role:** Position on the project
- **Major Requirements:** Which of the project requirements this stakeholder is concerned with.
- Internal/External: Is their role inside the company or not?
- Communication type: What is their preferred method/frequency of communication?

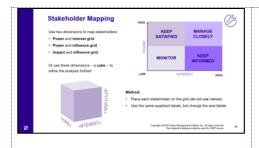
Assessment information:

- **Expectations:** Take note of their expectations of the project. You will have learned this during an interview, for example.
- **Influence/Attitude:** What degree of impact can this stakeholder have on the project? Use descriptive terms and ensure everyone understands what the terms mean.

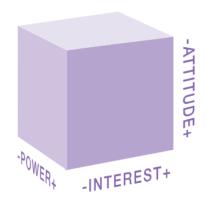


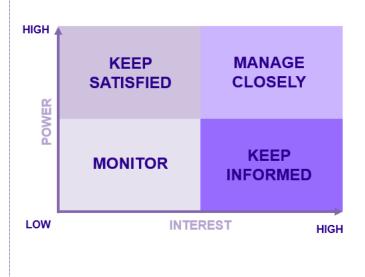
Titles Into	Level of authority Level of concern about project outcomes - Ability to Influence project outcomes or cause changes to planning or execution - Magnitude of pointrial contribution or disruption to project outcomes or cause changes to planning or execution - Magnitude of pointrial contribution or disruption to project of the contribution or disruption to project of detactor. - Talor state-holder assessments to suit project needs. The goal of this cercities is to facilitate your planning of effective communication with the state-holderal communication with the state-holderal communication and the state-holderal communication and the communication and	Know Your Stakeholders: Go Beyond Job Titles
		Power
		Interest
		Influence (attitude or impact)





Stakeholder Mapping





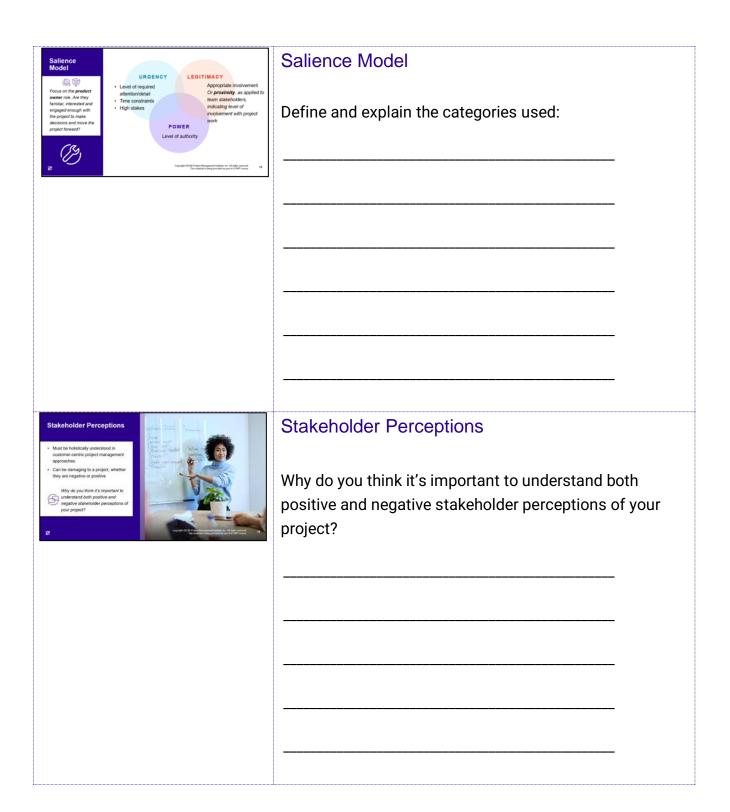




	Definition	Example	
Upward			
Downward			
Outward			
Sideward			



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Capture Stakeholder Feedback and Perceptions	Key stakeholders - transies to understand project requirements and vision and communication preferences	Capture Stakeholder Feedback Perceptions
Interpersonal akills Active listening Emocoral intelligence Effective communication methods	All stakeholders • Appropriate, regular project communications Large and public groups • Cundiformations/everys • Digital media - email cumpaigns, websites, group chafts • Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversities Potters and adversitie	Leadership tools and techniques include:
		Approaches for key stakeholders
		Approaches for all stakeholders
		Approaches for large and public groups



Stakeholder enpagement plan identifies required management strategies to effectively engage stakeholders. Team fulfils strategies via communications described in the communications management plan. Communications management plan.	Plan to Communicate with Stakeholders Stakeholder engagement plan	
	Communications management plan	
Leads to a clear articulation of the stakeholders' communications needs Enables effective choices about communication topics, frequency, models and technologies Output it a grid, questionnaire or survey that documents the communication and technology requirements for each stakeholder	Communication Requirements Analysis	

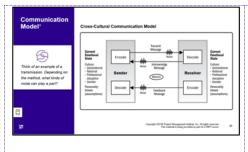


Communication: Methods and Meetings/verbal Technologies Physical (face to face) - Virtual (videoconferencing)	Communication Methods and Technologies	
Do you use any other communication methods or techniques on your property P	Note examples and best uses!	
Are there types your organization does not allow? Why? Body language and gestures White boards George Tolly Investment and Are Area and the State of the State	Meetings/verbal	
	Digital/electronic media	
	Dhariant	
	Physical	



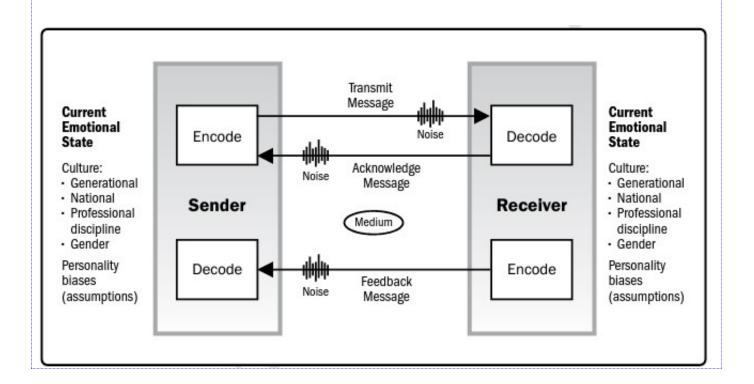
Push — sender determines: Send an email Make a phone call Push — receiver determines: Post information on beam board Store reference documents in electronic repository — e.g., Share-Point Share-Point Share-Point Interactive - Conversation (speaking on the phone, virtual in person) Messaging Agile learns are colocated on the highly colaboration. White-boarding Agile learns are colocated on the highly colaboration on the phone of the properties of	Push Pull	
	Interactive communication	
Communication Challenges / Considerations - Urgency of need for information - Availability and reliability of technology - Ease of use - Project environment – e.g., language and formality - Sensitivity and confidentiality of information - Communications OPAs — e.g., social media protocols - Duta protection laws-regulations - Accessibility requirements - Accessibility requirements - Accessibility requirements - Communications OPAs — e.g., social media protocols - Duta protection laws-regulations - Accessibility requirements - Accessibility requirements - Communications - Communications - Communications - Accessibility requirements - Communications - Communica	Communications Challenges/Consideration	ons





Communication Model

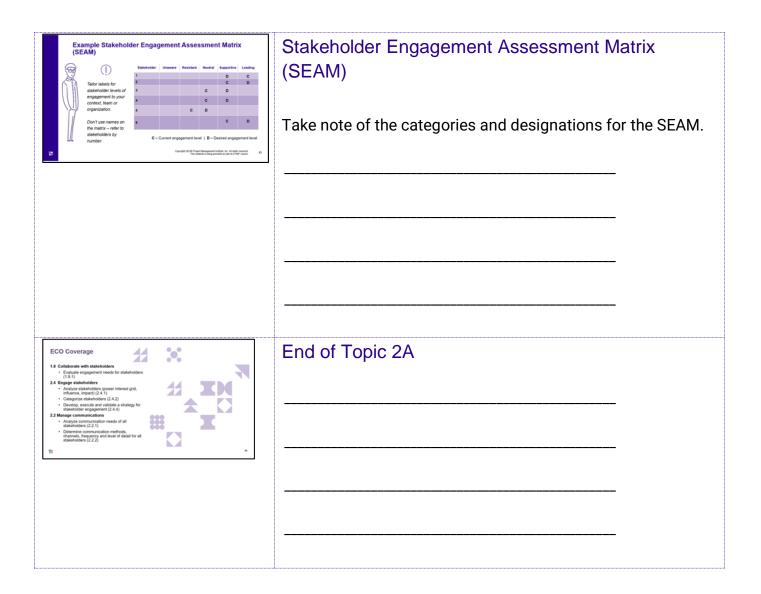
Take notes on the components and dynamics here:





Communication terms:	
Think of an example of a transm a part?	ission. Depending on the method, what kinds of noise can play
Stakeholder Engagement Strategy Involve stakeholders Enable appropriate management strategies Create and maintain relationships General for the form of the fo	Stakeholder Engagement Strategy What is your typical strategy for stakeholder engagement?







TOPIC 2B | FORM THE TEAM

ECO Coverage

- 1.4 Empower team members and stakeholders
 - Organize around team strengths (1.4.1)
- 2.16 Ensure knowledge transfer for project continuity
 - Discuss project responsibilities within team (2.16.1)
 - Outline expectations for working environment (2.16.2)
- 1.11 Engage and support virtual teams
 - Examine virtual team member needs (e.g., environment, geography, culture, global, etc.) (1.11.1)
 - Investigate alternatives (e.g., communication tools, colocation) for virtual team member engagement (1.11.2)



Topic 2B: Form the Team

Team formation is the next topic we'll explore.

This section provides guidance for the early stages of team formation, including how to prepare and what to expect.

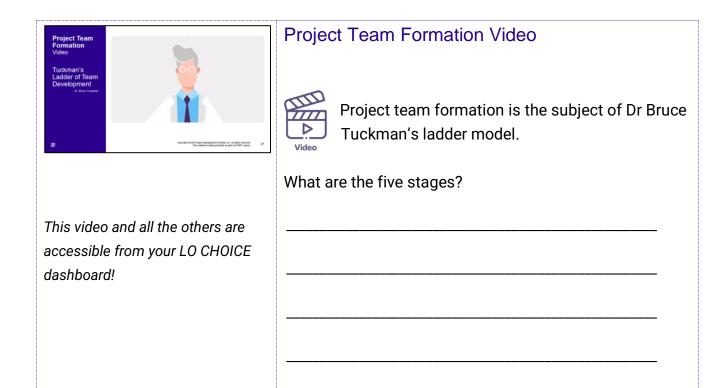


Many of the leadership elements of team formation are discussed in Lesson 4, Lead the Team.



Create a Collaborative Team Culture	Project manager:	Create A Collaborative Team Culture
(Cptional) How do you think a collaborative team culture can be created in a hybrid approach? Give some examples!	Builds team agreements, structures and processes that support a culture the enables individuals to work together and benefit from interactions Tailors a resource management plan The team assembles and self-organizes to support project requirements.	Project manager responsibility:
w	Coperigin 2010 To have different particles for the first particles of the first particles o	
		How do you think a collaborative team culture can be created in a hybrid approach? Give some examples!











Hybrid Team Formation Example Centralized coordination by a project manager or feam lead and self-organized project teams for portions of the work.	Hybrid Team Formation Examples/benefits:
Project Team Composition Refers to team's makeup and how from members are brought together Varies based on organizational cuture, location and scope Can be full their part intermembers Includes varied knowledge and expertise—i.e., garantida and specialists (house) (10th Applicament halfs to 4 agreement and specialists) (house) (10th Applicament halfs to 4 agreement and 10th Applicament and 10th Appl	Project Team Composition
Project Team Roles Project work staff Supporting experts Business partners	Project Team Roles What are the roles and what does each one do?



Identify Project Resource Requirements Guidelines - Ensure relevant bill sets - Avoid single points of failure — g , a single resource has a required skill sets - Avoid single points of failure — g , a single resource has a required skill color to the color of failure — e g , a single resource has a required skill color of the	Identify Project Resource Requirements: Guidelines
	Generalizing Specialists
	T-shaped
T-Shaped People and Self-Organizing Teams Provide inducts value and variatility on project fears Lend Mexicity to crigorizations Lend Mexicity to crigorizations That and colors fear memoriate to become 1- observed colorsing breadth and depth of browning breadth and depth of browning.	T-Shaped People and Self-Organizing Teams



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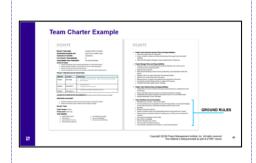
Diversity, Equity and Inclusion Standards - Teams are global and diverse in culture, general, epitical ability, language and many other factors. - The protect enforcement operations the learn's diversity and builds a crimite of multiust trust.	Diversity, Equity, and Inclusion Standards Define DE & I:
	What is the DE & I context of your organization or region?
Experts and Expert Judgment People from other areas of the organization Comunitaria Stakeholders Professional and technical associations Historical data Project manager	Experts and Expert Judgement
	People from other areas of the organization



Focus on Team Strengths Coganice around learn strengths Be aware of weakmasses Isomrity threats to learn success and opportunities to improve learn performance SWOT analysis	Focus on Team Strengths
	How can a SWOT Analysis help project professionals to focus on team strengths:
Team Norms - Together, establish expected team behaviors at the beginning of the project - Enable seams in handle challenges later - Include guidelines and ischrisques for: - Meetings - Communications - Conflict management - Shared values - Decision-making - Align feam values with the PMI Code of Ethics and Professional Conduct	Team Norms
PMIP Code of Ethics and Professional Conduct Can you member the flux values That drive efficial conduct for the project management profession? HONESTY HONESTY	PMI® Code of Ethics and Professional Conduct Can you remember the four values that drive ethical conduct for the project management profession?



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Team Charter and Ground Rules

Team charter



Ground rules

You can enlarge this document for inspection in the Shawpe project case study PowerPoint file (slide 31)

SHAWPE

SHAWPE LIFESTYLE CENTRE EXECUTIVE / EUGENE LOWE 36 MONTHS

DURATION OF CHARTER: # OF PROJECT TEAM MEMBERS:

TEAM MEMBER TIME COMMITMENT: 40 HOURS PER WEEK

SCOPE OF WORK:

- Construct bespoke interior spaces appropriate for commercial tenants
 Restore historic buildings in site district for use as community spaces
- · Recruit commercial and community tenants
- Create management structure and transfer to Oasestown Municipality partner

PROJECT TIMELINES AND KEY MILESTONES

Milestone	Due Date	Measured By
PHASE 1	DEC 20XX	Completion of interior spaces – obtain "safe occupancy" certificate Recruit tenants
PHASE 2	DEC 20XX+1	Tenants move in Completion of outdoor spaces
PHASE 3	DEC 20XX +2	Transferral of property management service

ADMINISTRATIVE/REPORTING REQUIREMENTS: All parties report directly to project manager

RESOURCES and BUDGET:

- Shawpe employees report to functional managers and project manager
 External contractors refer to SOW, report to project manager

PROJECT TEAM

Project manager: Ang Fen

TEAM MEMBERS:

- Daniel Ayan, Finance
- Greer Inniss, IT
 Janis Feather, Marketing

 Bus Dev
- Kareena Avoung, Bus Dev

- Luis DeSouza, Executive
 Bei Jones, Marketing
 Solomon Grant, Marketing

SHAWPE

Project Team Executive Sponsor Roles and Responsibilities Guide the project team to fulfill goals

- o Ensure all team members are fully oriented about the project vision at kickoff
- Work with the project manager to ensure group work is carried out.

- Guide the team in accomplishing the purpose detailed in the charter and in accordance with company policies.
- Keep the team focused.
- o Work toward building a sense of trust, productivity, and camaraderie within the
- Support a forum for open discussion and sharing of ideas.
- Address non- productivity within the group.
 Make decisions to support accomplishing the objectives of the team.
 Coordinate all administrative duties in support of the group.
- o Facilitate information gathering for meetings.

· Project Team Member Roles and Responsibilities:

- Collaborate as a team to follow all process and procedures to complete the work of the team.
- Ensure individual work for the team is carried out between meetings.
 Collaborate with project manager and product owner on an as-needed basis.
 Actively participate in team meetings.

Team Guidelines and Communication

- Working hours are 8am 5pm for the office
- o On site working hours are posted on site and change daily; use security ID badges to enter site at any hour, hard hats and boots must be worn on site
- Respect everyone's opinion
- Speak to people directly and appropriately before airing grievances in public
- People may be contacted outside of working hours, but they are not required to respond
- Use relevant messages in work chats
 Be on time to meetings
- o Ask for help when you need it
- Communicate honestly and openly
 Use email for essential communication, so read emails properly



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Team Communication - Effective communication includes:	Team Communication Effective communication includes:
	Organize communications:
Colocated, Virtual or Both? - "Normal" in most workglaces - Create opportunities for the organization: - Better shalls at lower costs - Auroids relocation - expenses - Whot file balance - Rely on communication technology - May have bonding challenges	Colocated, Virtual or Both? Advantages of colocated teams:
Mary have bonding challenges Grands Storgers hallow in 18 plan mend Grands Storgers hallow in 18 plan mend Grands Storgers hallow in 18 plan mend de	Advantages of virtual teams:



Virtual Team Challenges Individual performance tracking Diversity-language, technological skill Side working prohibits bonding Berkind Individual performance tracking and the state of t	Virtual Team Challenges
Running Virtual Teams - Check in with people individually as often as possible - Consult possible retroit-shulding activities (i) What are your fee for creating a possible without learn experience?	Running Virtual Teams What are your tips for creating a positive virtual team experience?
Virtual Team Communication Technology Plan team communicates and collaboration methods Consister working hour, perceptional departure and security registerners Use appropries tools: Task bounds Messaging and chat Calendors Document starge Noveledge propositions Videoconferencing	Virtual Team Communication Technology



Address Virtual Team Member Needs Facilitate and ensure cotaboration as a priority Address the basic needs of a virtual team, including: Cotresion Shared goals Carry on rises and expectations	Address Virtual Team Member Needs
1.4 Empower team members and stakeholders • Organize around learn steergins (1.4.1) 2.14 Ensure knowledge transfer for project continues knowledge transfer for project continues. Discuss project responsibilities within team (2.15.2) 1.1 Engings are support virtual teams. 1.1 Engings and support virtual teams. 2.1 Engings are support virtual teams. 3.1 Engings and support virtual teams. 4.1 Engings are support virtual teams. 5.2 Engings are support virtual teams. 6.3 Engings are support virtual teams. 6.4 Engings are support virtual teams. 7.5 Engings are support virtual teams. 8.7 Engings are support virtual teams. 8.8 Engings are support virtual teams. 8.9 Engings are support virtual teams. 8.1 Engings are support virtual teams. 8.1 Engings are support virtual teams. 8.2 Engings are support virtual teams. 9.1 Engings are support virtual teams. 9.2 Engings are support virtual teams. 9.2 Engings are support virtual teams. 9.3 Engings are support virtual teams. 9.4 Engings are support virtual teams. 9.5 Engings are support virtual teams. 9.6 Engings are support virtual teams. 9.6 Engings are support virtual teams. 9.7 Enging	End of Topic 2B



TOPIC 2C | BUILD SHARED UNDERSTANDING

ECO Coverage

- 1.2 Lead a team
 - Set a clear vision and mission (1.2.1)
- 1.8 Negotiate project agreements
 - Analyze the bounds of the negotiation for agreement (1.8.1)
 - Assess priorities and determine ultimate objective(s) (1.8.2)
 - Participate in agreement negotiations (1.8.4)
 - Determine a negotiation strategy (1.8.5)
- 1.10 Build shared understanding
 - Survey all necessary parties to reach consensus (1.10.2)
 - Support outcome of parties' agreement (1.10.3)
- 1.12 Define team ground rules
 - Communicate organizational principles with team and external stakeholders (1.12.1)
 - Establish an environment that fosters adherence to ground rules (1.12.2)





Topic 2C: Build Shared Understanding

One of the first goals in starting a project is to ensure that all team members and stakeholders have a common understanding of the objectives of the project, as well as an understanding of any agreements, such as contracts or statements of work that initiated the project.

You must also enable the team to understand the importance of the project and the alignment to the organization's strategic objectives.

Again, the focus is on creating that collaborative team environment, but the stakes are highest in this period. As much as possible, you need to make sure everyone is aligned before work starts.

If you get the team in a good place from the start, then keeping them motivated and inspired to do their best work will be easier in the weeks ahead!





eek Consensus for the Project Among the eam and Stakeholders



stal	are the project agreements (vision statement and project charter) with subciders and the team or en engotiate to reach agreement and "buy-in": Project agreements — stateholders Relea and responsibles, priorities and assignments — team hold the agreements throughout the project Use open and reliable communication methods and your leadership 'power alittle' Committee of the communication methods and your leadership 'power alittle' Committee of the communication methods and your leadership 'power alittle' Committee of the communication methods and your leadership 'power alittle' Committee of the committee of the communication of the committee	Building a Shared Understanding: Guidelines Stewardship:
-		Share project agreements and negotiate to ensure buy-in:
		Uphold project agreements:
• Incl the	salted by project sponsor or executive Sudds a clear vision of the desired objectives and alignment with organization's strategic goals for is it throughout the project to maintain alignment	Project Vision Statement
8	deposits 2016 from the recover statistics to 40 statement (see parties 2016) for interest Steep primate as part of 2019 cases. St	

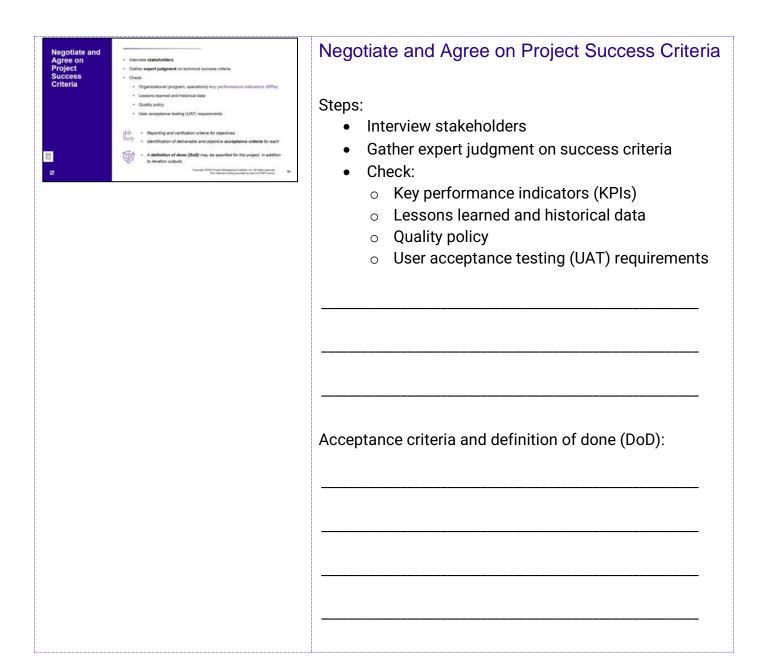


Holistic Understanding of the Project Negotiation Goals First, find out - The boundaries of negotiation for the project agreement - What, if anything, is eligible for discussion or troubleshooting - The desired objectives of the project Then: - Apply critical thinking and business acumen - Discover how the project fits in the organizational landscape and business objectives	Holistic Understanding of the Project: Negotiation Goals First, find out:
	Then
How to Create a Holistic Understanding of the Project - Ask stakeholders to elaborate and clarify their vision or inputs, including asking the sponsor to clarify the vision statement! - Existing agreements may contain initial intentions for, or describe, a project: - Contracts with external parties - Memorandum of understanding (MOUs) - Service-level agreements (SLAs) - Letters of agreements or intent. - Wirthal agreements - Communication (respectially emails) between key stakeholders - Statements of work (SOW)	How to Create a Holistic Understanding of the Project



Refer to Business Case and Business Needs	Business case: A documented economic feasibility study Establishes benefits of project work Provides a basis for authorization of further project activities Business needs documents: Identifies high-lavel deliverables A prerequisite of a format business case Describes requirements — what needs creating and/or performing	Refer to Business Case and Business Needs
For furthe	r optional reading or reference	
in busines	s analysis, PMI offers:	
	•	
•	The PMI Guide to Business	
•		
	Analysis (2017)	
•	Business Analysis for	
	Practitioners: A Practice	
	<u>Guide</u> (2015)	
Login and	access requires PMI	
membersl	hip	
	•	











What it does and why it's important: - Authorizes project - Embles project ramager to apply resources to project work. - Defines instructed and business need. - Vurifies alignment with strategic goals. - Kraspa everyone flocated on a clear project vision. Usually created by project approach or project manager with - executive/state/solder approach. Sometimes a statement of evoir can serve as project charter.	Project Charter Project charter definition What it does and why it's important
Project Charter Contents What's included: Names - project sportsor, project manager, key stakeholders Project description, including preliminary requirements, measurable objectives Business needs, including preliminary requirements, measurable objectives Business needs, including preliminary requirements, measurable objectives Summary schedule and milestones Assumptions, boundaries and constraints, including overall risk, approval requirements and approved budget information from the business case, including accesses and exit criteria filespet Allia the season to the state of the filespecies and filespecies	Project Charter: Contents What's included:
The Shawpe project team builds this project charter – see slides 34-35 of the Shawpe project case study! This example project charter is a concise, one page document, but charters can vary in length and breadth.	9-





PROJECT CHARTER

PROJECT NAME			PROJECT MANAGER	PROJECT SPONSOR
Shawpe Lifestyle Center (SLC)		Ang Fen	Eugene Lowe	
EMAIL		PHONE	ORGANIZATIONAL UNIT	
ang.fen@shawpe.co	m	000.000.0000	Executive	
ESTIMATED COSTS	EXPECTED SAV	'INGS	EXPECTED START DATE	EXPECTED COMPLETION
\$10 Million	\$0		Jan 20XX	Dec 20XX+2

PROJECT OVERVIEW

PROBLEM OR ISSUE	Rehabilitate commercial property in downtown Oasestown		
PURPOSE OF PROJECT	Establish a profitable commercial development and community partnership in Oasestown		
BUSINESS CASE	Attached. Approved by E. Lowe and BOD at Oct 20XX meeting.		
GOALS / METRICS	Building code and other local government compliance with historic district construction		
EXPECTED DELIVERABLES	"Rehabilitate 128,000 sq metre indoor/outdoor space to meet municipality standards and compliance with National Heritage & Conservation Board (NHC) standards / Property management entity established with Oasestown partner / Secure 14-18 highly reputable commercial tenants"		
RISK - CONSTRAINTS, ASSUMPTIONS	Site in historical conservation zone New vendors for specialist glasswork and masonry Physical retail market stability Physical retail market stability		

PROJECT SCOPE

WITHIN SCOPE	Manage construction contractors and site development; conduct marketing and advertising to secure 14-18 high-quality tenants to anchor commercial space; Work with commulty partners to establish socially beneficial community spaces and programs Manage project budget (funded by external grant) within compliance
OUTSIDE OF SCOPE	architectual work - interior and exterior - Oases Architects building work - XYZ General Contractors, ZYX specialist contractors External grant fund management

TENTATIVE SCHEDULE

KEY MILESTONE		START	FINISH
Fo	orm Project Team / Preliminary Review / Scope	00/00/0000	00/00/0000
Fir	nalize Project Plan / Charter / Kick Off	00/00/0000	00/00/0000
-	Design and build interior	00/00/0000	00/00/0000
Phase	Create contract with community groups	00/00/0000	00/00/0000
=	Recruit 14-18 tenants	00/00/0000	00/00/0000
2	Design and build outdoor spaces	00/00/0000	00/00/0000
Phase	Install community programs	00/00/0000	00/00/0000
₫	Secure \$5M revenue in annual commercial rents	00/00/0000	00/00/0000
Phase 3	Finalize all construction	00/00/0000	00/00/0000
Pha	Train SLC property management staff	00/00/0000	00/00/0000



Kickoff Meeting	Kickoff Meeting
Purpose Establishes project context. Assists in steam formation Algres team and stakeholders with project vision Organizational Public Announce project initiation Company of the project vision Organizational Public Announce project initiation Suppose and value Assists in steam, expect initiation Announce project initiation Present results of planning efforts Present product roadmap Announce project charter Company State product path of Normany Present product path of Normany Present product roadmap Present product path of Normany Present presents and planning of Normany Present path of Normany Present presents and planting of Normany Present presents and planting of Normany Present path of Normany Present presents and planting of Normany Present product path of Normany Present path of Normany Present product path of Normany Present product path of Normany Present path of Normany Present path of Normany Present product path of Normany Present path of Normany Present product path of Normany Present path of Normany Present product path of Normany Present path of Normany Present path of Normany Present	Purpose:
	Organizational/public:
	Internal/team:
	Any specific differences according to life cycle? ———————————————————————————————————
ECO Coverage 1.2 Lead a team - Set a clear vision and mission (1.2.1) 1.3 Negotiate project agreements - Analyze the bounds of the negotiation for agreement (1.8.1) - Assess profiles and determine ultimate objective(s) - Parlicipate in agreement regotiations (1.8.6) - Determine a negotiation strategy (1.8.5) 1.10 pulled shared understanding - Survey all necessary parties to reach consensus (1.1.0.2) - Support outcome of parties' agreement (1.10.3) 1.12 centre learn ground rules - Communicative organizational principles with team and external stakeholizors (1.1.2) - Establish are environment that footers adherence to ground rules (1.1.1.2) - Establish are environment that footers adherence to ground rules (1.1.2.2)	End of Topic 2C



TOPIC 2D | PROJECT APPROACH

ECO Coverage

- 2.13 Determine appropriate project methodology/ methods and practices
 - Assess project needs, complexity, and magnitude (2.13.1)
 - Recommend project execution strategy (e.g., contracting, financing) (2.13.2)
 - Recommend a project methodology/approach (i.e., predictive, adaptive, hybrid)
 (2.13.3)



Topic 2D: Project Approach

Now that you have a clearer idea of the purpose, objective, stakeholders, and team resources required for the project, you and your team will be thinking about how you can best approach the work.



First, Understand How and Why Approaches Differ - Changing perceptions of value — e.g., sustainability, customer-centricity - Dynamic and perpetual global change - Increasing complexity and risk Need to innovate and be dynamic - Which project management frameworks do you use? - Co you have a preference?	First, Understand How and Why Approaches Differ ——————————————————————————————————
	Which project management frameworks do you use? Do you or your organization have a preference?



Tailored Development Approaches - Support dynamic work environments - Discover value delivery requirements early - Put stakeholders and the team in close collaboration	Tailored Development Approaches
Advantages: Provide better feature or capability assessment — continuous improvement and quality Improve organizational tolerance for change Servant leaders influence projects and encourage the organization to think differently. General Tolerance Assessment — to the servant and a contract to the c	Role of servant leadership in tailoring a development approach:
Project Management Development Approaches	Project Management Development
Characteristics Certainty About Requirements - Plen-driven - Linear sequence of activities, in phases - Phase completion governed by phase gates - Planactivities, in phases - Phase completion governed and managed	Approaches
Cheogo-driven Elization or consonential Timeboued cadence (interactional prints) or continuous flow Line Continuous flow Line Continuous flow Continuous	
Tailored development approach, combining these elements Samp 2010 Prose desegnation by A. A spin words. Since the spin and the spin an	



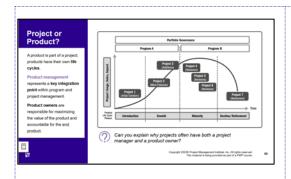


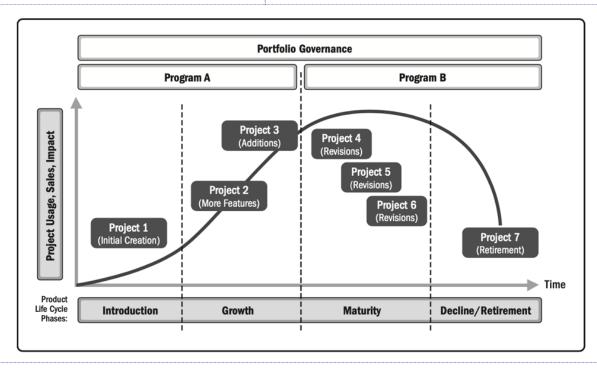
Figure 2-4. Sample Product Life Cycle | The Standard for Project Management, PMBOK® Guide – Seventh Edition

Project or Product?

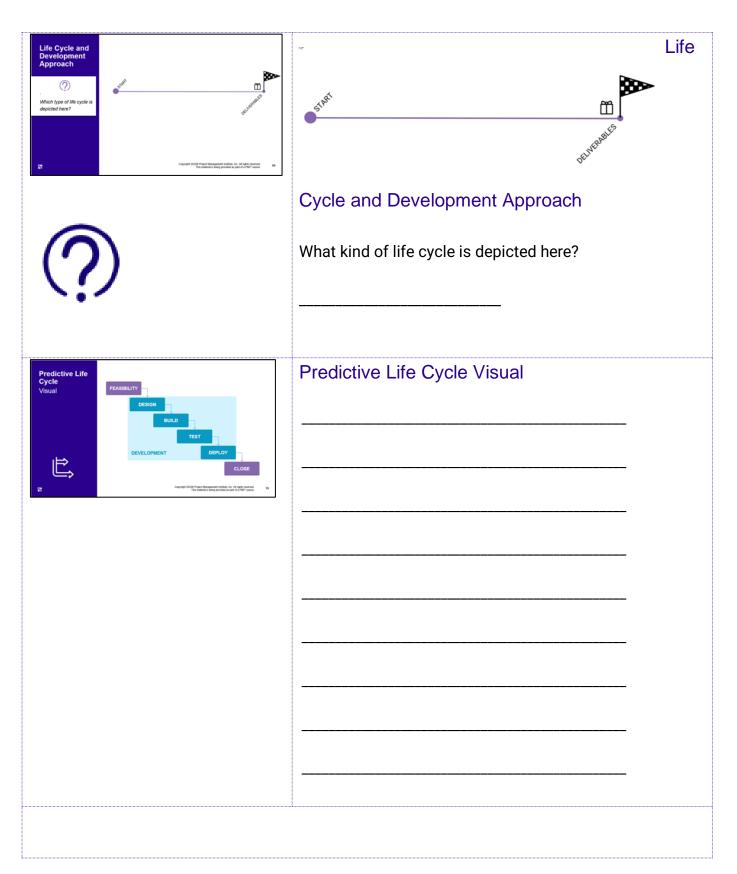
Product management definition:

Product / project relationship:

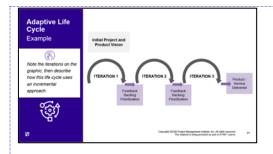
Explain why projects often have both a project manager and a product owner:







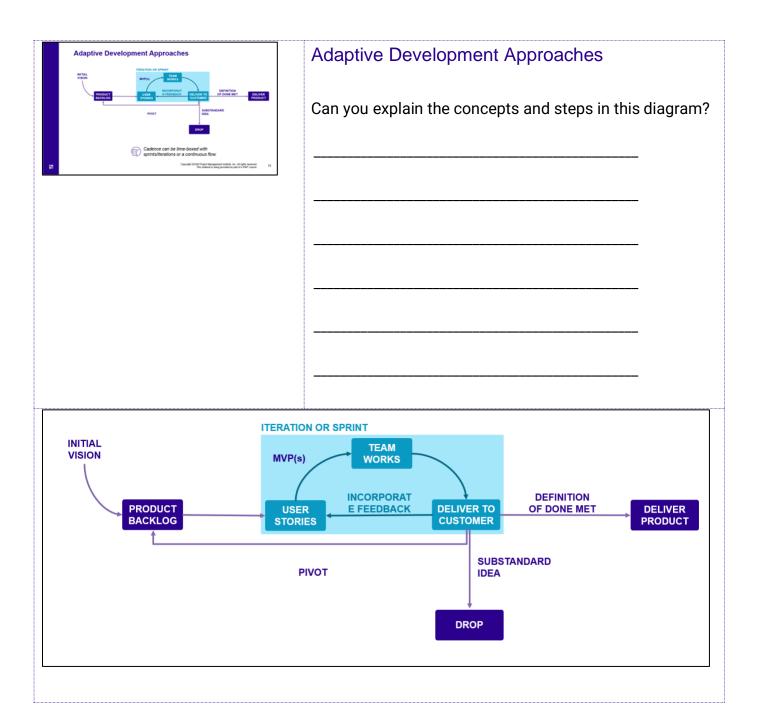






Cadence	_	Cadence	
Refers to the timing and frequency of delivery of project deliverables. Single: One delivery at the end of the project Multiple: Delivery separated into parts, not necessarily sequentially Periodic: Like multiple deliveries, but on		Definition	
a flued schedule — e.g., monthly or bimonthly	CrossR 2008 had Margament hillion. In Another Income. The national biology provided good of a Prifer Income. 29		
		Single delivery – definition and typical use case	е
		Multiple delivery – definition and typical use ca	ase
		Periodic delivery – definition and typical use ca	ase







A _l Li Te	evelopment pproach and ife Cycle erminology uiz	Project professionals use a or method, which can be predictive, iterative incremental, adaptive, or hybrid, to create and evolve a, which is a unique and verifiable product, result, or capability to perform a service.	
	Deliverable Development approach Phases Life cycle	A project passes through a series of logically related activities, called from its start to its completion. This entire process is called a ———————————————————————————————————	
22		Copyript 2005 Proper Management Intillut, In: All organ seasoned. The number for law personal as part of Mell mores.	м



Development Approach and Life Cycle Terminology Quiz

Fill in the blanks using the following words:

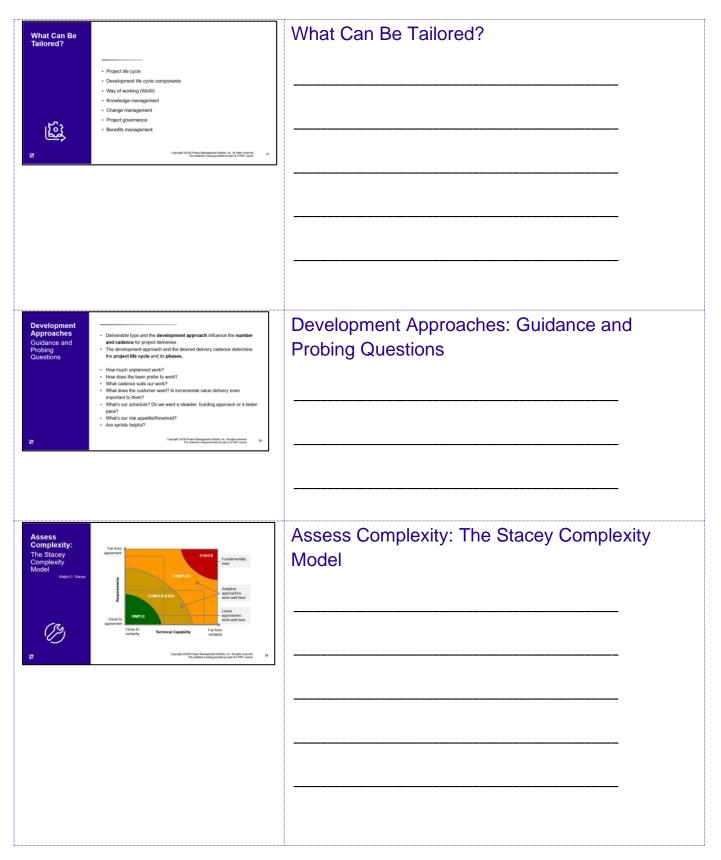
- Deliverable
- Development approach
- Life cycle
- Phases

Project professionals use a	or method,
which can be predictive, iterativ	ve, incremental, adaptive,
or hybrid, to create and evolve	a, which is
a unique and verifiable product	t, result, or capability to
perform a service.	
A project passes through a ser	ies of logically related
activities, called fro	om its start to its
completion. This entire proces	s is called a
·	
Acceptance of a is	required to complete a
process, phase, or project.	



Hybrid Life Cycle and Development Approach	Accomplished by tailoring Combines adaptive and predictive life cycles and/or development approaches Useful when requirements are uncertain or risky Also useful when relevientables can be modularized, or when deliverables can be developed by different project teams Uses iterative and incremental development Copyright Reproductive limits in all Adaptive and incremental development Copyright Reproductive limits in all Adaptive limi	According to PMI research, most projects are hybrid how and why are they created? What are the busine needs or drivers? Think about project approach in to of systems' interactions.	d. But
Hybrid Project Approaches: Examples	Use agile or iterative practices within a predictive framework Use predictive artifacts or processes within an adaptive life cycle Business analysis techniques assist with requirements management New tools help identify complex elements in projects Organizational change management methods prepare for transitioning project outputs into the organization (change 2010 hours literature loads in a disfluenced depart and the action of the change and the action of the a	Hybrid Project Approaches: Examples	

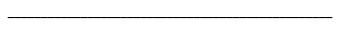




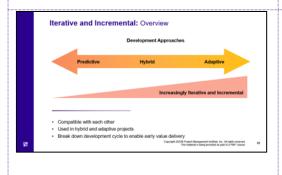




Suitability Filter: A Diagnostic Visual Based on Survey Data

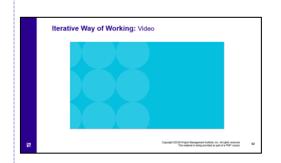


For more information on how to use this



tool: Agile Practice Guide, p. 127+

Iterative and Incremental: Overview





Also available for viewing in your LO CHOICE dashboard



Iterative Way of Working Video

The video mentions the following artifacts and ceremonies. We'll look at an overview of agile ceremonies in this lesson; the others are discussed as follows:

- Product backlog Lesson 3
- Iteration backlog Lesson 3
- User stories Lesson 3
- Burndown chart Lesson 5
- Iteration planning Lesson 3
- Coordination meeting aka standup or scrum Lesson 2
- Iteration demonstration aka Demo Lesson 5
- Iteration retrospective Lesson 4



Scrum	Scrum	
This is a commonly used agile framework that offers suggestions for how work can be organized to maximize value to the end user. Sorum is implemented at a potuci development term level. Roles include a scrum master/senior scrum master who facilitates ceremonies (meetings); iterations are called sprints. Remember that Agile frameworks focus on influencing the entire organization, including leadership and company culture.	Scrum master / senior scrum master	
Copyright (2002) Physic Management certalists. In a fill offer received. 80 to 40 offer received. 80 to 40 offer received. 80 offer received as part of a Mill received. 80 offer received as part of a Mill received. 80 offer received as part of a Mill received. 80 offer received as part of a Mill received. 80 offer received as part of a Mill received. 80 offer received as part of a Mill received. 80 offer received as part of a Mill received as part o		
	Sprints (iterations)	
Scrum Ceremonies Overview - Sprint planning - Inam collaborates with product owner to plan work for current sprint - Scrum master/serior scrum master facilitates - Daily scrum - Short, dayl meeting of team cosly - Team marriades describe work, ask for help, consider progress toward goal - Not a statum meeting - Sprint review - can include Demo	Scrum Ceremonies: Overview Sprint planning:	
* Helial at end of agrint: * Team, product owner and stakeholders attend, or customers review progress and give feedback to adapt product * Sprint retrospective * Team scientifies improvements to performance and collaboration **Connel® 7018 have the experience within the of sight memory and the experience of the connection of the con		
	Daily scrum:	



Scrum Ceremonies Overview	Sprint planning Team collaborates with product owner to plain work for current sprint Sours master/senior aroun mater facilitates Daily scrum Short, daily meeting of team only Team remôters describe work, ask for help, consider progress toward goal	Sprint review—can include demo	
ir	Not a status meeting Sprint review — can include Demo Held at end of sprint Tham, product remore and statasholders attend, or customers review progress and give Redubukt to adopt product Sprint retrospective Taam identifies improvements to performance and collaboration Connell 2010 Than Statement Medical Collaboration Connell 2010 Than Statement Medical Collaboration As a connell 2010 Than Statement Medical Collaboration Collaboration As a connell 2010 Than Statement Medical Collaboration Collabo		
Scrum Ce	eremonies (continued)	Sprint retrospective	



Agile Ceremonies	Agile Ceremonies Do you use these agile ceremonies in your org How effective do they seem to be to you? Product strategy meeting	anization?
	Daily meeting or standup:	
	Backlog refinement	
	Project retrospective	



2.13 Determine appropriate project methodology/ methods and practices • Assess project needs, complexely and magnitude (2.13.1) • Recommend project execution shatlepy (e.g., contractine, financing (2.13.2) • Recommend a project methodology/approach (i.e., predictive, adaptive, hybrid) (2.13.3)	End of Topic 2D
End of Lesson 2 End of Lesson 2 End of Lesson 2	End of Lesson 2





Lesson 3: Plan the Project

Description

Planning includes all aspects of a project, including scope, schedule, budget, quality, risk, and finally, putting it all together.



Learning Objectives

- · Explain the importance of a project management plan.
- · Provide an overview of scope planning in both predictive and adaptive projects.
- · Provide an overview of schedule planning in both predictive and adaptive projects.
- · Discuss resource planning for a project, including human and physical resources and the role of procurement.
- · Determine the budgeting structure/method for a project
- · Explain the importance of tailoring a budget.
- · Identify strategies for dealing with risks and risk planning.
- · Assemble a toolkit of possible responses to risks.
- · Define quality and how it relates to the outcomes and deliveries for a project.
- · Discuss the importance of integrating project management plans and tailoring a change management process.

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Topics

- A. Planning projects
- B. Scope
- C. Schedule
- D. Resources
- E. Plan budget
- F. Risks
- G. Quality
- H. Integrate plans



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Lesson 3 Notes

TOPIC 3A | PLANNING PROJECTS

Topic Coverage

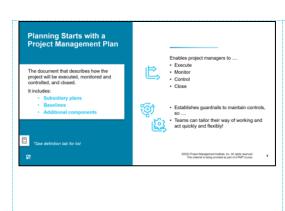
• Differentiation of planning in predictive and adaptive approaches



Topic 3A: Planning Projects

In this lesson, we look at how project teams can plan for successful outcomes using PMI best practices. Most of the content in this section refers to the "Process" domain in the exam content outline, or the Way of Working side of the Talent Triangle®, but we will explore relevant leadership "power skills" and business environment factors as well.





Planning Starts with a Project Management Plan

Subsidiary plans

Baselines

SUBSIDIARY MANAGEMENT PLANS

- Scope management plan
- Requirements management plan
- Schedule management plan
- Cost management plan
- Quality management plan
- Resource management plan
- Communications management plan
- Risk management plan
- Procurement management plan
- Stakeholder engagement plan

BASELINES

- Scope baseline
- Schedule baseline
- Cost baseline

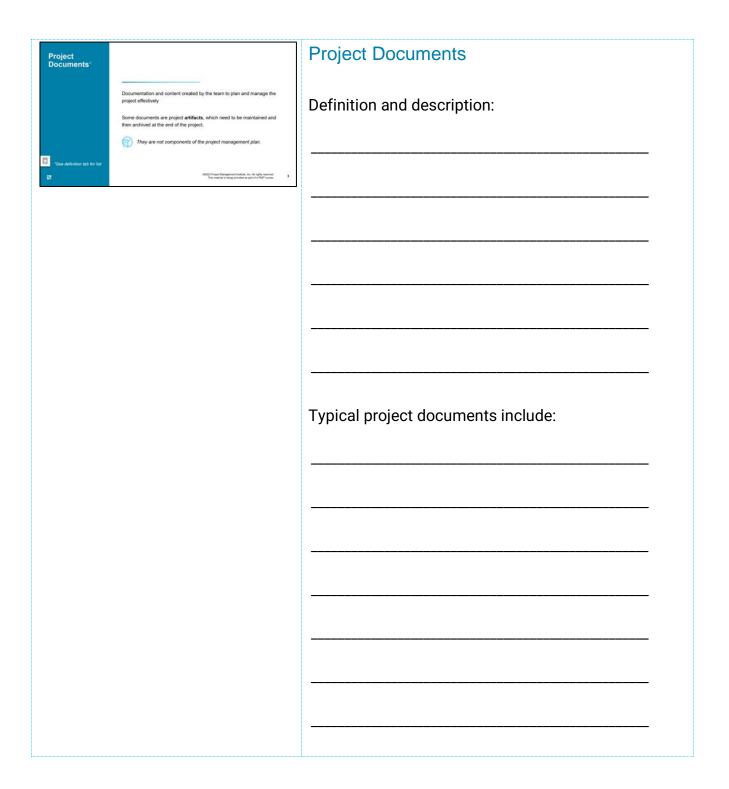
ADDITIONAL COMPONENTS

- Change management plan
- Configuration management plan
- Performance measurement baseline
- · Project life cycle
- Development approach
- Management reviews

Additional components

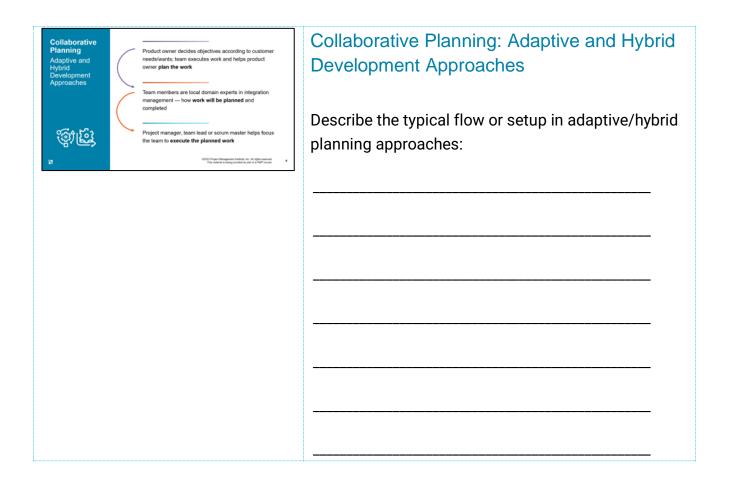
Enables project managers to:







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	Predictive 😂	Hybrid 🚉	Adaptive 🥡
Requirements specification	Defined in specific terms before development	Elaborated periodically during delivery	Elaborated frequently during delivery
Outcome(s)	Delivered at the end of the project	Can be divided into pieces (incremental)	Delivered after each iteration according to stakeholder-desired value
Change	Constrained as much as possible	Incorporated at periodic intervals	Incorporated in real time during delivery
Stakeholder Involvement	At specific milestones	Regularly	Continuously
Risk and cost controls	Through detailed planning of mostly known consideration	Through progressive elaboration of plans	Done as requirements an constraints emerge

Planning Across Life Cycles

	Predictive	Hybrid	Adaptive
Requirements			
specification			
Outcome(s)			
Change			
Stakeholder			
Involvement			
Risk and cost			
controls			

Topic Coverage	44	×
Differentiation of planning in predictive ar adaptive approaches	nd	# XM
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TOPIC 3B | SCOPE

ECO Coverage

- 2.1 Execute project with the urgency required to deliver business value
 - Support the team to subdivide Project tasks as necessary to find the minimum viable product (2.1.3)
- 2.8 Plan and manage scope
 - Predictive vs Adaptive approach for scope
 - Determine and prioritize requirements (2.8.1)
 - Break down scope (e.g., WBS, backlog) (2.8.2)
- 2.17 Plan and manage project/phase closure or transitions
 - Determine criteria to successfully close the project or phase (2.17.1)
 - Differentiation of planning in predictive and adaptive approaches



Topic 2B: Scope

Now that we have an overview of how project planning happens across project life cycles, we're ready to get into the business of planning! Typically, we start with scope.



Scope - Project scope or product scope?	Scope
SHANPE SHANPE Let's use the Shape Lifestyle Centre project—the independent case study part of this course—to understand these ferms better. COST hope Management status, i.e. if right served the status interpreted as part of their course. The status interpreted as part of their course.	Project scope
The examples on this slide are from the scenario in the optional Shawpe (SLC) case study exercise (self-study) included with this course.	Product scope
	What does fixed or flexible mean?



Scope Project s

Project scope or product scope?

· Is it fixed or flexible?



LIFESTYLE CENTRE

Let's use the Shawpe Lifestyle Centre project—the independent case study part of this course—to understand these terms better.

SCOPE

The **project scope** of the Shawpe Lifestyle Centre is to complete a construction project and engage a sales and marketing project to fill it with tenants over time.



The **product scope** is the completed revitalization of Oasestown with bespoke (customized) spaces for commercial and community tenants.



The scope of the construction project is **fixed**. It's based on finalized blueprints and building compliance requirements with little room for change. . . and a specific timeline!

FLEXIE

The scope of the sales and marketing project is **flexible**. It depends on the timely completion of the construction project, market forces, and the customer's desired design. The team will derive as much value as possible, as early as possible, by working iteratively and incrementally.



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Enlarged version with click-outs



Adaptability and Resilience in Planning
Rolling wave planning
Progressive elaboration



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Planning for Wow! What you're building is actually useful! With the boundary of the form	MVP or MBI? Planning for Work Incrementally
This video provides a closer look at MVPs and MBIs.	
Product Roadmap* • Envisions and plans the "big picture" • Displays product strategy and direction and the value to be delivered • Leads with the overarching product vision and uses propessive elaboration for refine vision • Uses themes (goals) to provide structure and associations • Provides short-term and long-term visualization	Product Roadmap Product roadmap

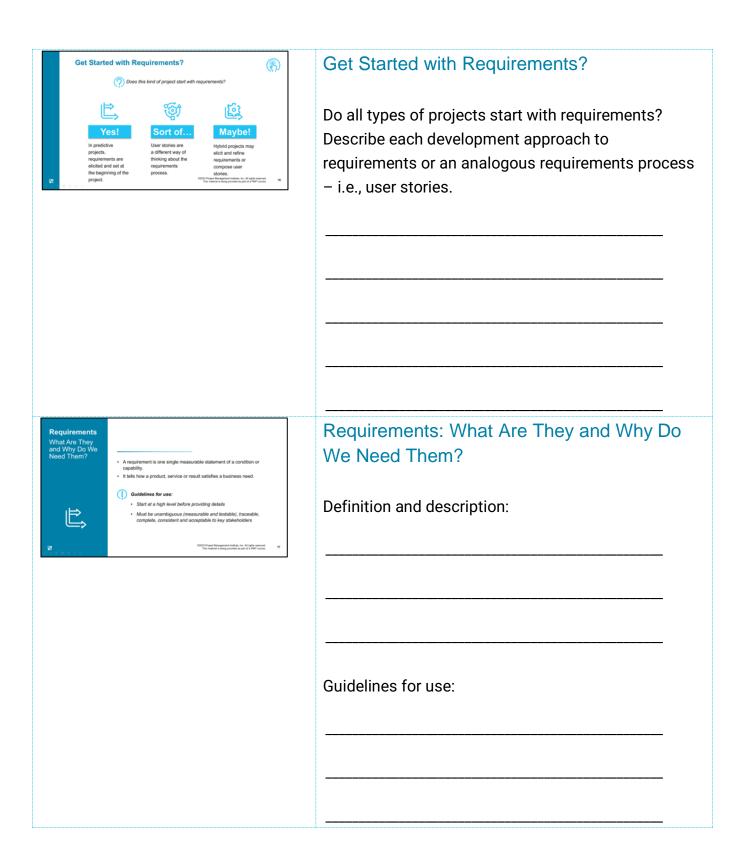


Milestones - Markers for big events, reviews, due dates, payments or decision-making - Percepts for reporting requirements or sponsoricustomes approval - Created by ropiect managers, customers or both - Amilestone list identifies all milestones and indicates which are: - Mandatory-required by contract, or - Optional restimated on historical information)	Milestones Definition and description
	A milestone list identifies all milestones and indicates which are:
Scope Planning Comparison of Processes PROJECT MANAGER - Facilitates the Collect Requirements Process - Documents requirements in a: - Scope statement (textidocument) - Work breakdown structure (WBS) – (visual) - Develops schedule, budget, resource and quality plans to deliver requirements - What might a hybrid scope planning process fook like? What might a hybrid scope planning process fook like?	Scope Planning: Comparison of Processes Project manager:
SSSS have the foregrowth of the state of the	



Product owner:	(2)
Team:	
Collect requirements process	
Requirements documentation	
User story	
What might a hybrid scope planning pro	ocess involve?









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Туре	Describes the	
Project	Actions, processes and conditions the project must meet	
Product	Features and characteristics of the product, service or result that will meet the business and stateholder requirements • Functional - Product features • Northanctional - Supplemental environmental conditions/qualities that make the product effective	
Quality	Conditions or criteria needed to validate the successful completion of a project deliverable or fulfilment of other project requirements.	
Business	Higher-level organizational needs, reasons for the project	
Stakeholder	Stakeholder (or stakeholder group) needs —aka "Reporting requirements"	
Transition/ Readiness	Temporary capabilities needed to transition successfully to the desired future state	

Types	of Red	quirem	ents		

Туре	Describes the
Project	
Product	
Quality	
Business	
Stakeholder	
Transition/Re	
adiness	



Collect Requirements Process - Expert Judgment - Interpersonal/Team Skills - Nominal group technique - Observation - Facilitation - Pacilitation - Mind mapping - Affinity diagram - Context or use case diagram - Prototyping — e.g., storybearding — e.g., story	Collect Requirements Process Expert judgment / Interpersonal/team skills ——————————————————————————————————
Take notes on these tools and techniques used in the Collect Requirements process.	Data gathering
	Data analysis
	Decision-making techniques
	Data representation

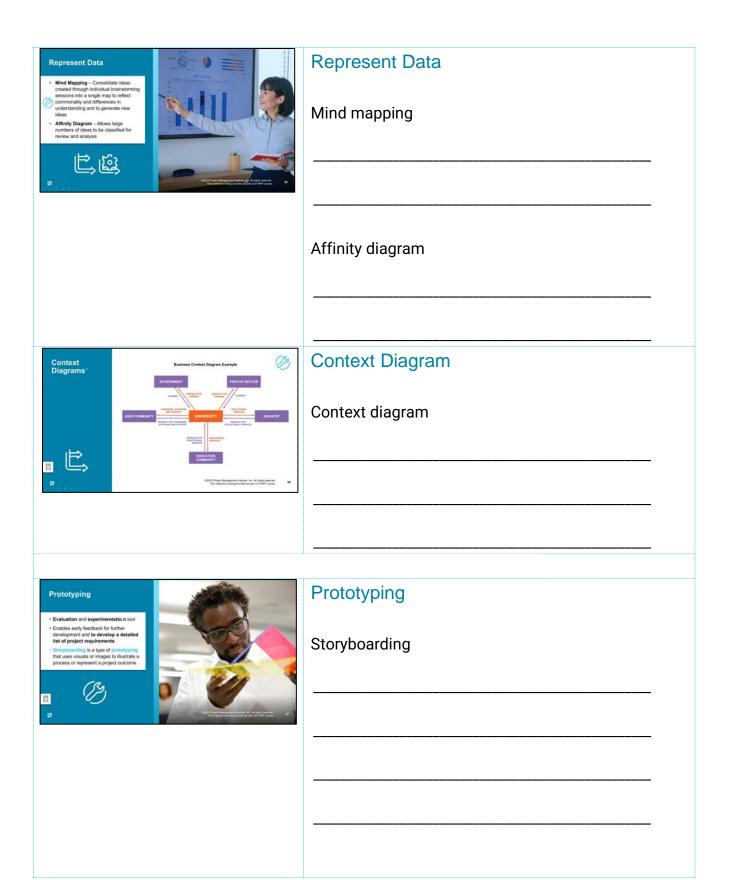






	Can you remember the other methods for data gathering?	
	Why do you think benchmarking is effective in gathering data for scope planning?	
Scope Planning — Requirements Prioritization Description Use to warm a common information with statement of the statement o	Scope Planning-Requirements Prioritization	





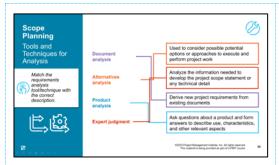


	Prototypes
Penview of the scope activities for the project and how that work will be done to the company of the scope statement. Should include processes to prepare a project scope statement. Enables the creation of the WBS from the detailed project scope statement. Establishes how the scope baseline will be approved and maintained. Specifies how formal acceptance of the completed project deliverables will be obtained. Can be formal or informal, broadly framed or highly detailed.	Scope Management Plan Scope management plan









Scope Planning: Tools and Techniques for Analysis

Match the requirements analysis tool/technique with the correct description



This is a matching exercise you should have completed with the class.

Document analysis

Alternatives analysis

Product analysis

Expert judgment

Used to consider possible potential options or approaches to execute and perform project work

Analyze the information needed to develop the project scope statement or any technical detail

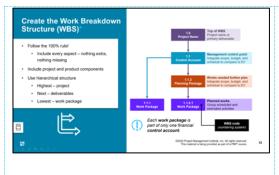
Derive new project requirements from existing documents

Ask questions about a product and form answers to describe use, characteristics, and other relevant aspects



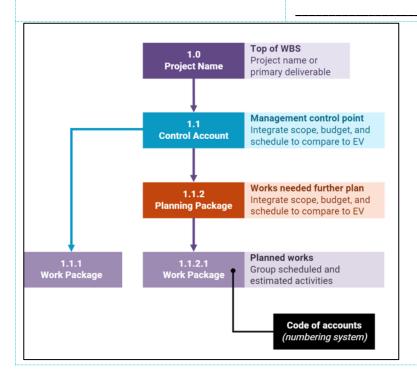
PRODUCT BREAKDOWN Sights a product and its requirements into components to achieve a clear understanding of work. SYSTEMS ENGINEERING Approaches design, integration, and management, and the tile cycles or copyles systems in a multi-disciplinary way. SYSTEMS STATEMS AND AND STATEMS STATEMS STATEMS AND S
Spitts a product and its requirements into components to arthere see idear understanding of work. SYSTEMS ENGINEERING Approaches design, integration, and management, and the life cycle of complex systems in a multiplication of the complex systems in a systems factor and required quality and systems in the complex systems in the complex systems in a systems in the complex systems in the complex systems in a system in the complex systems in the complex systems in the complex systems in a system in the complex systems in the complex systems in a system in the complex systems in the complex systems in the complex systems in a multiplication of the complex systems i
purposes and create systemal procedures to achieve them efficiently
GESS Figure Strongers Indian Sec. of Section 1992. The American Sec. of Section 1992 and Se
Systems engineering
Systems analysis
Requirements analysis
Value engineering
Value analysis





Create the Work Breakdown Structure

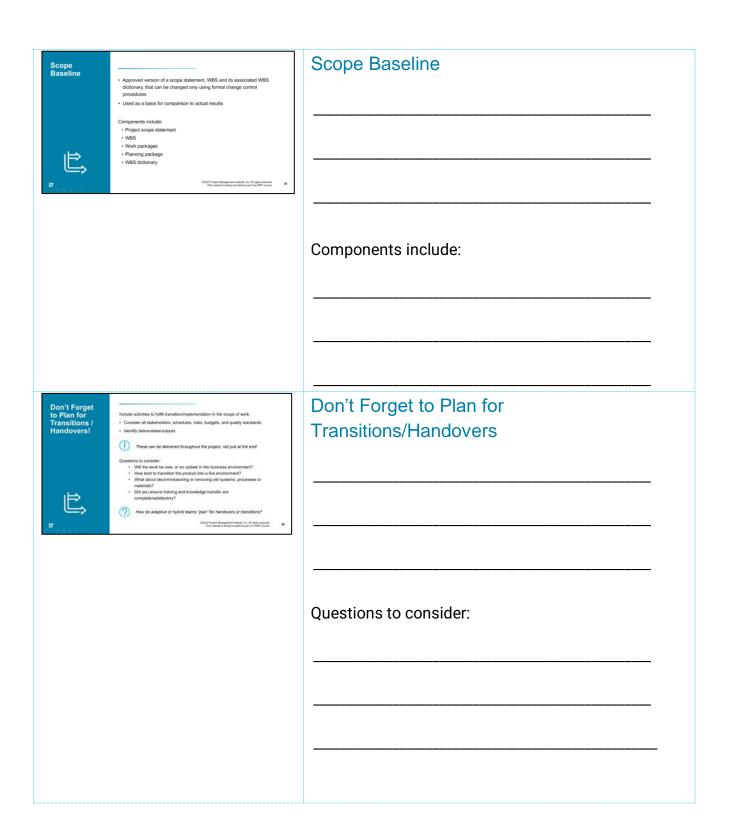
Work breakdown structure (WBS)













Scope Planning in Adaptive Environments	
Incremental or iterative development User stories propose an alternative way of viewing the requirements process	TO DO IN PROCESS DON
* ঞ্চাট্ট	

Scope Planning in Adaptive Environments

Release and Iteration Planning	Collaborative planning meetings that break scope into larger releases and then iterational/prints
	At release planning (or Agile release planning), decide:
Planning also takes	 Number of iterations or sprints needed to complete each release
place at the standup	Features contained in the release
meeting when teams discuss	Goal dates of each release
details of work in	At iteration planning (or sprint planning):
progress.	 Review the highest prioritized user stories or key outcomes
	Ask questions
(Agree on effort required to complete the user story in the current iteration
4,	Determine the activities required to deliver iteration objectives
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Release and Iteration Planning

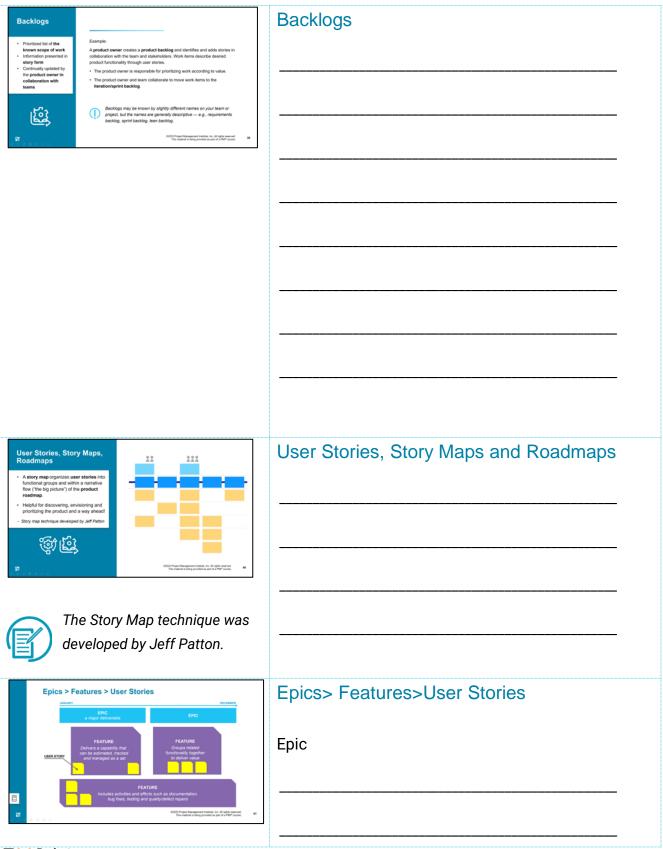
Planning also takes place at the daily standup meeting when teams discuss details of work in progress.

Collaborative planning meetings that break scope
into larger releases and then iterations/sprints

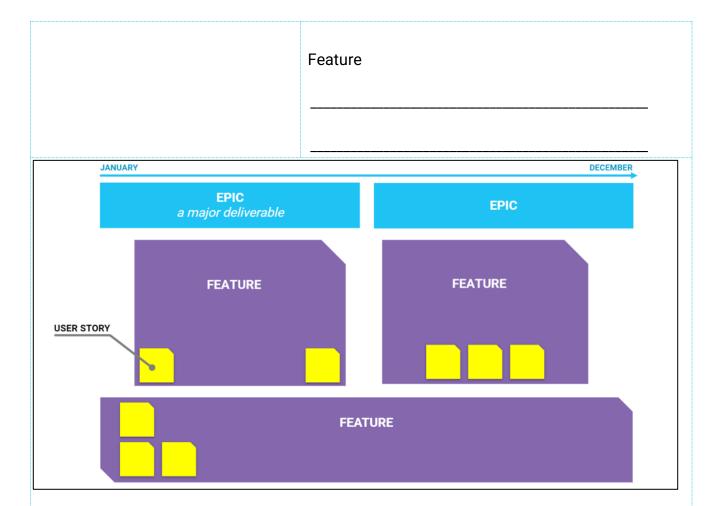
At release planning (or Agile release planning),
decide:

At iteration planning (or sprint planning):





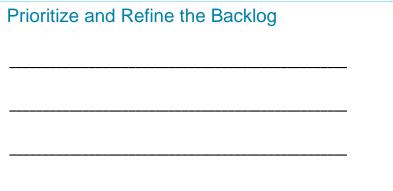
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Note the timeline at the top which indicates the varied and typical intervals of each component.

Also note the situation of each – for example, epics can include more than one feature and user stories are placed within features





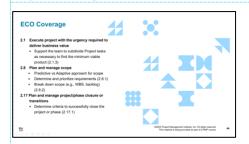


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You can find more practice questions in the optional

Shawpe (SLC) case study exercise (self-study) included with this course.



Plan Scope: Quiz

This is a similar format to the PMP® certification exam, except without names of individuals and companies.

Which two stakeholders perform project scope planning? (Choose two)

- a) Ang Fen, project manager
- b) Helen Grey, product owner
- c) Eugene Lowe, project sponsor
- d) Project team

Ang Fen wants to give the executive team an overview of the work ahead at the next strategy meeting.
Which artifact should he show them?

- a) Scope management plan
- b) Product roadmap
- c) Scope statement
- d) Work breakdown structure

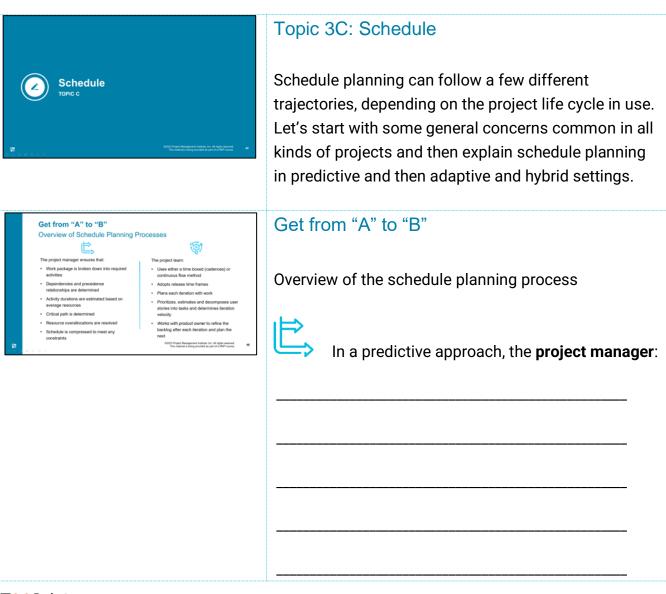
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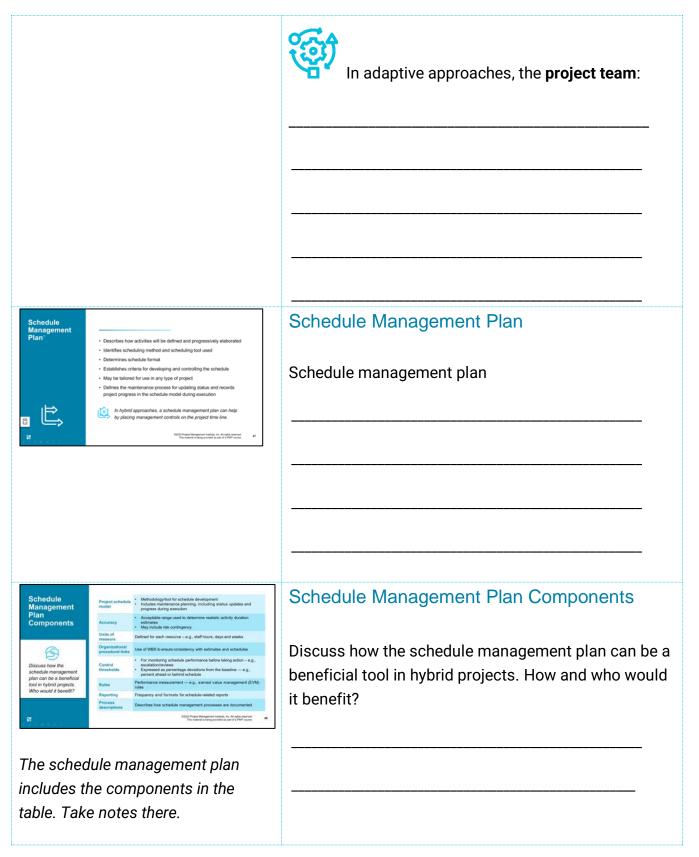
TOPIC 3C | SCHEDULE

ECO Coverage

- 2.6 Plan and manage schedule
 - Predictive vs adaptive approach for schedule
 - Estimate project tasks (milestones, dependencies, story points) (2.6.1)
 - Utilize benchmarks and historical data (2.6.2)
 - Prepare schedule based on methodology (2.6.3)



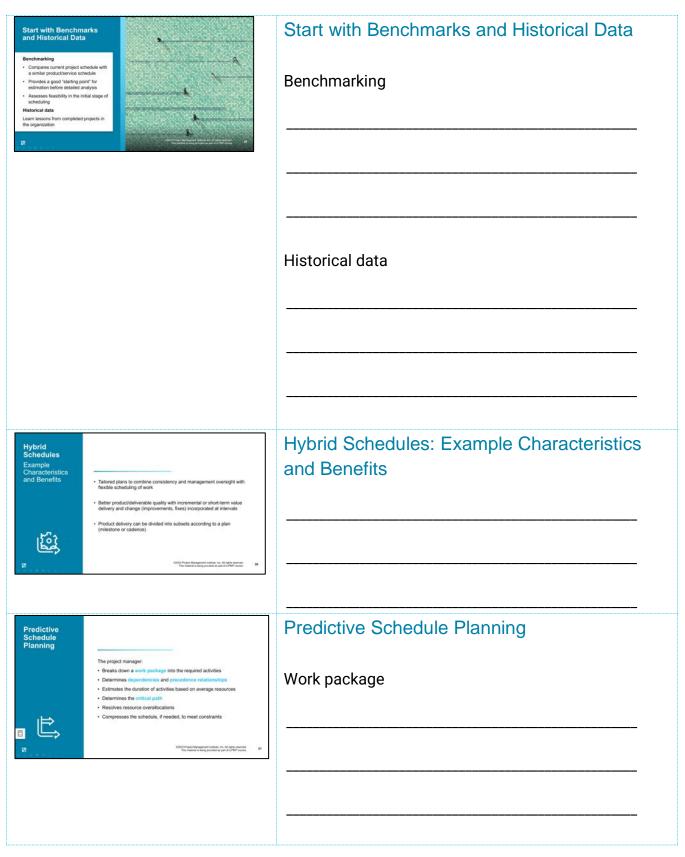
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Project schedule model	
Accuracy	
Units of measure	
Organizational procedural links	
Control thresholds	
Rules	
Reporting	
Process descriptions	







	Precedence relationship
	Dependency
	
	Critical path
Break Down Project Activities Trajet Name Project Instruction Control of the Project Name Activities Trajet Name A	Break Down Project Activities
Persix down project work packages into activities (noun) Train activities (noun) Train activities (noun) Train activities into the activity list using a verb statement Use the activity list to develop the project schedule	Project activities
Include duration (start and end day) for every activity Tallor the amount of detail in activities to the project content to enable meaningful Tollor the amount of detail in activities to the project content to enable meaningful Tollor the amount of detail in activities to the project content to enable meaningful Tollor the amount of detail in activities to the project content to enable meaningful Tollor the amount of detail in activities to the project content to enable meaningful Tollor the amount of detail in activities to the project content to enable meaningful Tollor the amount of detail in activities to the project content to enable meaningful Tollor the amount of detail in activities to the project content to enable meaningful Tollor the amount of detail in activities to the project content to enable meaningful Tollor the amount of detail in activities to the project content to enable meaningful Tollor the amount of detail in activities to the project content to enable meaningful Tollor the amount of detail in activities to the project content to enable meaningful Tollor the amount of detail in activities to the project content to enable meaningful Tollor the amount of detail in activities to the project content to enable meaningful Tollor the amount of detail in activities to the project content to enable meaningful Tollor the amount of detail in activities to the project content to enable meaningful Tollor the amount of detail in activities to the project content to enable meaningful Tollor the activities to the project content to enable meaningful Tollor the amount of detail in activities to the project content to enable meaningful Tollor the activities to the project content to enable meaningful Tollor the activities to the project content to enable meaningful Tollor the activities to the project content to enable meaningful Tollor the activities to the project content to enable meaningful Tollor the activities to the project content to enable meaningful Tollor the activ	
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	Activity list
	

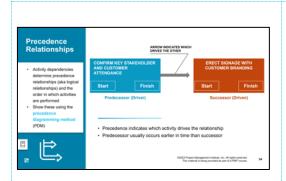


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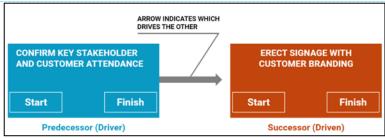
				Code of accounts
ctivity				Activity Dependency Types
ctivity ependency ypes	Mandatory	Meaning Contractually required or inherent in the nature of the work Established because of	Action by Project Manager Must schedule it — No way around this sequence Can be modified as needed.	Activity Dependency Types
	Discretionary	best practices or a specific sequence is desired Activities performed outside the project team's work	if replaceable with a better sequence, or if schedule compression is required	
	Internal	In project work, contingent on inputs	Has control 1 Management restrict, sec. At option reserved. 10 Management is part of a Walf success. 10	
		М	eaning	Action by Project Manager

	Meaning	Action by Project Manager
Mandatory		
Discretionary		
External		
Internal		





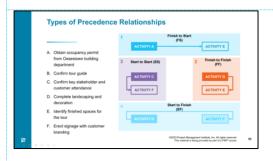
The activities relate to the project work in the optional Shawpe (SLC) project case study.



Precedence Relationships

Precedence diagramming method

- This graphic is a **finish-to-start relationship** example:
- The team needs to CONFIRM KEY STAKEHOLDER AND CUSTOMER ATTENDANCE and then ERECT SIGNAGE WITH CUSTOMER BRANDING.
- They need to apply the budget and time only to the customers who are committed to attending.



Types of Precedence Relationships

- Finish to start (FS)
- Finish to finish (FF)
- Start to start (SS)
- Start to finish (SF)

These are explained below, and an example is given of each.

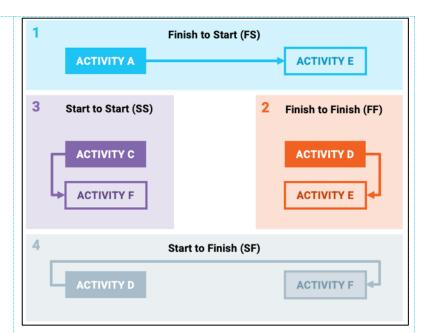


The activities in this schedule network diagram relate to the Shawpe (SLC) project case study. The narrative is given here for those who benefit from learning about the precedence relationships by example.



Activities used in diagram:

- A. Obtain occupancy permit from Oasestown building department
- B. Confirm tour guide
- C. Confirm key stakeholder and customer attendance
- D. Complete landscaping and decoration
- E. Identify finished spaces for the tour
- F. Erect signage with customer branding



Explore this excerpt of a **schedule network diagram**. Note each colored box is labelled with a number.

1. Finish-to-start (FS): - A logical relationship in which a successor activity cannot start until a preceding (predecessor) activity has finished.

For example: Obtain occupancy permit from Oasestown building department **before** the team can identify finished spaces for the tour. The total time for these two activities is the sum of A + E.

- Explanation: The company can only take visitors to spaces that are certified safe for occupancy.
- **2. Finish-to-finish (FF):** A logical relationship in which a successor activity cannot finish until a preceding activity (predecessor) has finished.

For example: Complete landscaping and decoration must be finished before identifying finished spaces for



the tour. The total time to complete both activities is the sum of D + E, minus any overlap.

- Explanation: The team only wants to show finished spaces, so the landscaping and decoration must be completed before the space can be identified as "finished."
- **3. Start-to-start (SS):** A logical relationship in which a successor activity cannot start until a preceding activity (predecessor) has started.

For example: The team can't erect stakeholderspecific signage for the tour before key stakeholder attendance is confirmed. As with the FF example, the total time for activities C and F will vary, depending on when Activity F starts. But in SS, execute, is a longer window of time during which Activity F can begin.

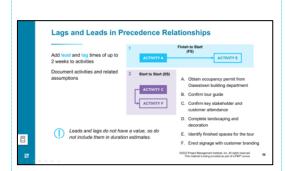
Explanation: The marketing team can't erect stakeholder-specific signage without confirming which stakeholders will attend! But they can start designing the signs and ordering the materials while they wait for confirmation.

4. Start-to-finish (SF): A logical relationship in which a successor activity cannot finish until a preceding activity (predecessor) has started.

For example: Complete landscaping and decoration can't end until erect stakeholder-specific signage for tour has started. The total time for two activities in an SF relationship is either D or F, whichever is longer.

 Explanation: The groundskeeping team can start landscaping and decorating at any time, but until the signs are erected and the whole site is tidied up, they cannot finish their work.





Lags and Leads in Precedence Relationships

Lead

Lag

Lead:

In our example, the team wants to include time in case the agency issuing the occupancy permit is slow. So, they begin efforts to confirm receipt of occupancy permit 2 weeks **before** the team identifies finished spaces for the tour. This would be shown as a finishto-start with a 2-week lead as shown in Section 1.

Lag:

In our example, the team starts erecting stakeholder-specific signage for the tour 2 weeks after key stakeholder and customer attendance is confirmed. Creating specialty signage takes time and is costly, so the team wants to make sure the designers have time to create something that will please the potential customers.

Guidelines:

- The use of leads and lags should not replace schedule logic.
- Duration estimates do not include any leads or lags.
- Document activities and their related assumptions.





Activity Duration Estimate Terminology	Activity Duration Estimate The quantitative assessment of the likely number of time periods required to complete an activity	Activity Duration Estimate Terminology
	Elapsed time The actual calendar time required for an activity from start to finish Effort The number of labor units required to complete a scheduled activity or WBS compenent, often expressed in hours, days, or weeks; contrast with duration	Activity duration estimate
	(SSE Transport Frake, Inc. M. September). She extended a large provided as part of a NAP across. \$1.50.000 and \$1.50.000 provided as part of a NAP across.	
		Elapsed time



			· ·
Analogous	Uses historical data from a similar activity or project to estimate duration (or cost) aka "top-down estimating."	Less costly and time consuming Used when project information is limited	May be inaccurate, depending on quality of historical information
Parametric	Uses an algorithm to calculate duration (or cost) based on historical data and project parameters. Durations can be quantitatively determined — multiply quantity of work to be performed by the number of labor hours per unit of work.	Can produce higher levels of accuracy depending on apphishcation of data from model Scalable and linear	Does not account for a learning curve — i.e., work gets easier as learn becomes more expert. Uniform units of work are not typical in projects.
Three-Point	 Defines an approximate range of an activity's duration, using most likely, optimistic, and presimistic estimates. Used when historical data is insufficient, or subjective 	May improve accuracy of single-point estimations by including risk and uncertainty factors	Requires detailed resource information Requires expert knowledge to estimate tasks
Bottom-up	Uses aggregates of the estimates of the lower level components of the WBS.	Very accurate and gives lower-level managers more responsibility	May be very time consuming Can be used only after the WBS has been well define.

Estimating Techniques

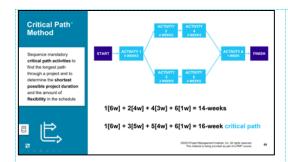
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		Advantages	Disadvantages
Analogous	Uses historical data from a similar activity or project to estimate duration (or cost) aka "top-down estimating."		
Parametric	Uses an algorithm to calculate duration (or cost) based on historical data and project parameters.		
	Durations can be quantitatively determined — multiply quantity of work to be performed by the number of labor hours per unit of work		
Three- Point	Defines an approximate range of an activity's duration, using most likely, optimistic, and pessimistic estimates Used when historical data is insufficient, or subjective		
Bottom-up	Uses aggregates of the estimates of the lower level components of the WBS		



<u></u>			
	Three-Point Estimation Examples	PERT is based on a probability distribution: therefore, we can calculate a standard deviation:	Three-Point Estimation Examples
	Triangular Distribution (average)	(P - O) / 6 = PERT Standard Deviation BETA Distribution (PERT average)	
	FORMULA E = (O + M + P) / 3 Optimistic = 3 weeks Most Likely = 5 weeks	FORMULA E = (O + 4M + P) / 6 Optimistic estimate = 3 weeks	Triangular Distribution (average)
	Pessimistic = 10 weeks EQUATION (3 + 5 + 10) / 3 = 6 weeks	Weighted most likely estimate = 5 weeks Pessimistic estimate = 10 weeks EQUATION	
맭	* * * * *	[3 + 4 (5) + 10] / 6 = 5.5 weeks (300) Popel Management Institute Inc. All rights reserved. This content is foreign provided as part of a PMP course.	
			Beta distribution (PERT average)
			What is PERT?





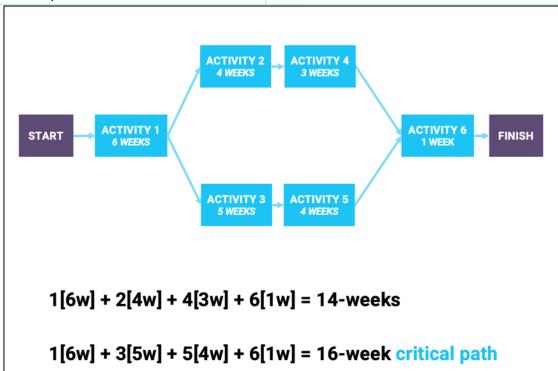
Process:

- Sequence mandatory critical path activities to find the longest path through a project and to determine the shortest possible project duration and the amount of flexibility in the schedule.
- Determine the length of each path in the diagram.
- The longest path is the critical path.

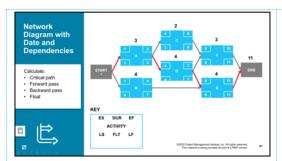
Critical Path Method

Sequence mandatory critical path activities to find the longest path through a project and to determine the shortest possible project duration and the amount of flexibility in the schedule

- Each activity is inside a box with its duration estimate.
- The arrows indicate the nature of a dependency







Network Diagram with Date and Dependencies

Float



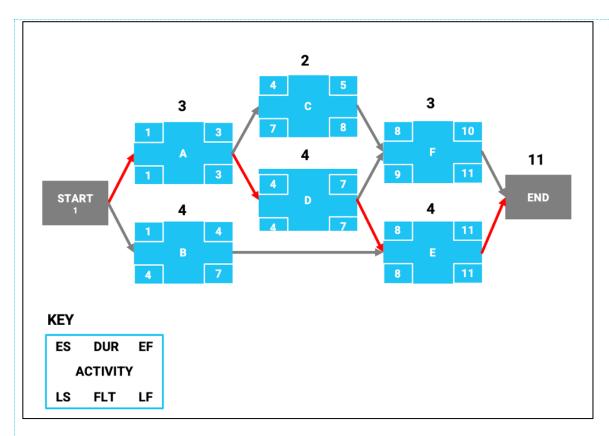
The example is explained below, for your information. However, this is automated process done with software—e.g., Primavera—and these calculations are **not required on the exam**.

Free float will always be less than or equal to float.
Early finish date (EF)
Early start date (ES)
Late finish date (LF)



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Late start date (LS)



Example:

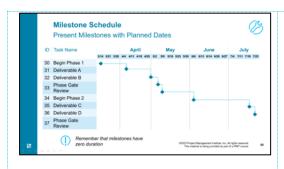
- 1. The first step would be to draw the diagram for the various activities noting their predecessors (arrows).
 - This will show the number of paths in the project. In this case there are four potential paths, ACF, ADF, ADE and BE.
 - By adding up the length (durations) of the various paths, the path with the longest duration is known as the critical path.
 - Remember though that there can be multiple critical paths. If the length of other paths
 are very close in length to the critical path, those are identified as "near" critical paths
 and will require monitoring by the project manager, so they do not also become a
 critical path.
- 2. The next step is to do the forward pass to determine the early start (top left of box) and early finish (top right of box) date for each activity.
- 3. Then perform the backward pass, the late start (bottom left) and late finish (bottom right) date can be determined.
- 4. The difference between the early and late dates is known as the **float** or slack for the activity (ES minus LS and EF minus LF). Activities on the critical path will have a float or slack of 0 days.

To double check on your forward and backward pass answers: the difference in days between the early and late start dates and the difference in days between the early and late finish dates should be the same number of days.

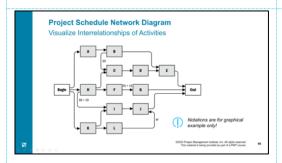




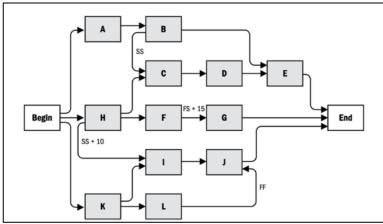




Milestone Schedule



Project Schedule Network Diagram



Visualize Interrelationship of Activities

Can you identify the elements on the diagram?

- Activities
- Dependencies
- Predecessors
- Successors



Resource Optimization	Smoothing - Adjusts the activities within predefined resource limits and within free	Resource Optimization
□	and total floats Does not change the critical path nor delay the completion date Method may not be able to optimize all resources Levelling Adjusts start and finish dates based on resource constraints Goal is to balance demand for resources with available supply Use when shared or critically required resources have limited availability or are over-allocated Can change the critical path	Once the schedule is mapped out on the network diagram, it's time to allocate resources.
		Resource smoothing
		Resource leveling
Schedule Compression Techniques	Past-tracking Perform activities in parallel to reduce time May result in rework, increased risk and increased cost Crashing Shortens schedule duration for the least incremental cost by adding resources — e.g., overtime, additional resources Works only for activities on the ricitical path Does not always produce a visible alternative and may result in increased risk andor cost.	Schedule Compression Techniques Fast tracking
6	6000 Argan Managemen Indias, Nr. Al Argan serviced. Be water as taking procedure a gard of a filler mouse.	
		Crashing

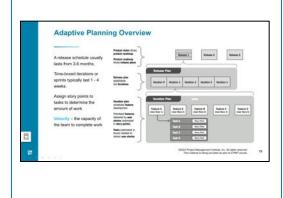






Schedule Management in Adaptive Environments Guidelines - Depends on team composition and life cycle - Project team works with the product owner to decide - Develop the roadmap to show release functionality and smelframes - Choose an approach: - Time-boxed scheduling with backlog - On-demand, continuous scheduling - Project team selects activities for delivery within an iteration (or spirit) - Teams produce increments of value for delivery and feedback	Schedule Management in Adaptive Environments: Guidelines
Adaptive Scheduling Approaches Comparative View Gn-Germand (Senthern) Land-based) - Advan individual requests to be addressed - Levels out and of ham members - Best view and of ham members - Best view of progress where of progress where out of progress are lossed progress where the progress wher	Adaptive Scheduling Approaches: Comparative View





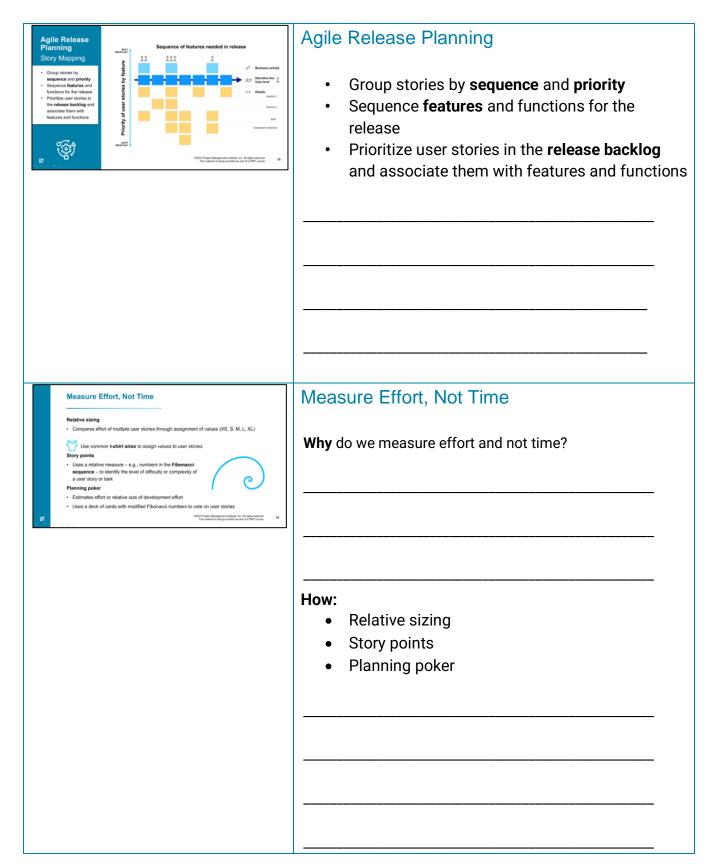
Adaptive Planning Overview

- A release schedule usually lasts from 3-6 months.
- Timeboxed iterations or sprints typically last 1 4 weeks.
- Assign story points to tasks to determine the amount of work.
- Velocity the capacity of the team to complete work

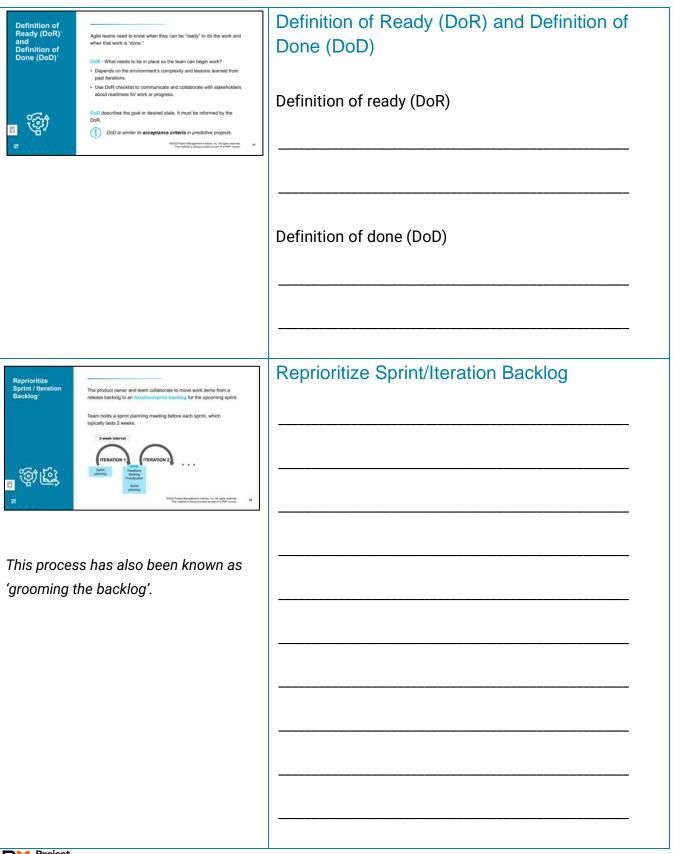


Workin	g with I	Feature	es	

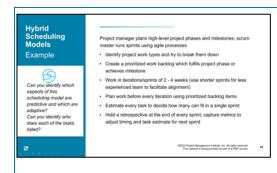




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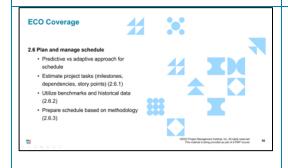
Can you identify which aspects of this scheduling model are predictive and which are adaptive?

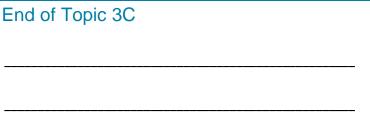
Can you identify who does each of the tasks listed? The project manager, product owner or team?

Hybrid Scheduling Model Example

Project manager plans high-level project phases and milestones; scrum master runs sprints using agile processes.

- Identify project work types and try to break them down.
- Create a prioritized work backlog which fulfils project phase or achieves milestone.
- Work in iterations/sprints of 2 4 weeks (use shorter sprints for less experienced team to facilitate alignment)
- Plan work before every iteration using prioritized backlog items.
- Estimate every task to decide how many can fit in a single sprint.
- Hold a retrospective at the end of every sprint; capture metrics to adjust timing and task estimate for next sprint.







TOPIC 3D | RESOURCES

ECO Coverage

- 1.6 Build a team
 - Deduce project resource requirements (1.6.2)
- 2.11 Plan and manage procurement (resources)
 - Define resource requirements and needs (2.11.1)
 - Communicate resource requirements (2.11.2)
 - Manage suppliers/contracts (2.11.3)
 - Plan and manage procurement strategy (2.11.4)
 - Develop a delivery solution (2.11.5)



Topic 3D: Resources

Resources include both the people and equipment that will be needed to conduct the project activities. We also discuss how to plan for procurement of external resources in this section.

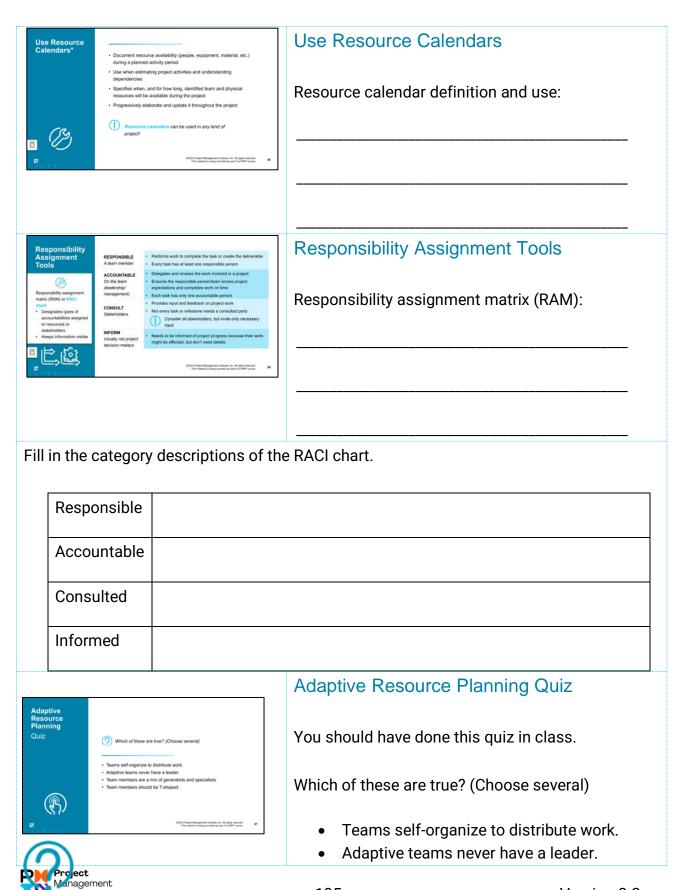


Resources People and Equipment Value and empower internal human resources, yet Leverage external sources to ensure you have the best team and equipment presided.	Resources: People and Equipment
Recommended reading –	
<u>"People Management"</u> <u>resource on PMI.org.</u>	
Resource Management Plan* - Mentily resources - People and equipment - New to acquire them - People's roles and responsibilities - Role - A puriority - Rights to use resources, make decisions, accept deherable, deherable, - Responsibility - Assigned dury - Competencies and skills required - Project Cognization Chart - (Vesual with resource categories and reporting relationships) - Project team resource management - Guidance on how to define, select, manage and release resources - Training - Strategies and requirements - Training - Strategies and requirements - Resource controls - Methods for ensuring non-human-resources are available as member interholds - Recognition plan -	Take notes on what's included in the resource
Identify resources	management plan.
How to acquire them	
Peoples' roles and	
responsibilities	
Role	
Authority	
Responsibility	



Competencies and skills	
required	
Project Organization	
Chart	
Project team resource	
management	
Training	
Team development	
methods	
Resource controls	
Recognition plan	
Assign Resources and Allocate Responsibilities - Assign team members to project - Decide roles and responsibilities - Create team directory, organization chart and the sid - Project schedules, resource assignments and are all interrelated and can be created at the a approach - Consider technical and "soft" skills: - Experience, knowledge, aktils - Althode - Global regional factors	budgets arme finel.
	Consider both technical and 'soft' skills and competencies





	 Team members are a mix of generalists and specialists. Team members should be T-shaped.
Quiz answer	All are 'true' except "Adaptive teams never have a leader." Teams self-organize, and hybrid teams can have a centralized management model with a project manager or a team lead. 'Never' is incorrect here, because it can be useful to have a team lead, an agile coach, a facilitator, and so on. Another way of answering this is to say that everyone is a leader—a



Make or Buy? Borrow?	External sourcing considerations: What is the impact on cost, time or quality? Is there an ongoing need for the specific skill set? New steep is the learning curve? New required resources available within the organization? Would outsourcing allow the team to focus? Use a make-or-buy analysis to make the best decision for your team. Make-or-buy decisions are part of a procurement strategy.	Filling Resource Needs: Make or Buy? Borrow?
		Make-or-buy-analysis
		Make-or-buy-decisions
Plan the Procurement		Plan the Procurement Strategy
Strategy Prerequisite OPAs Acquisition method Contract types Procurement phases	Work with organization's finance or procurement department Use pre-approved vendors before requesting a new vendor Observe purchase amount limits per signatory — i.e. contracts valued over a centan threshold must be co-signed Use defined bidding process and templates Require RFPs for contracts valued over a certain threshold Follow escalation procedures for approval of spending limits Pay contracts at a defined time — e.g., upon completion of work or at the end of a project, with net payment terms (2020 Payer terupener treate, 16, 4 Japan sevents the second or special payment terms) (2020 Payer terupener treate, 16, 4 Japan sevents the second or special payment terms)	

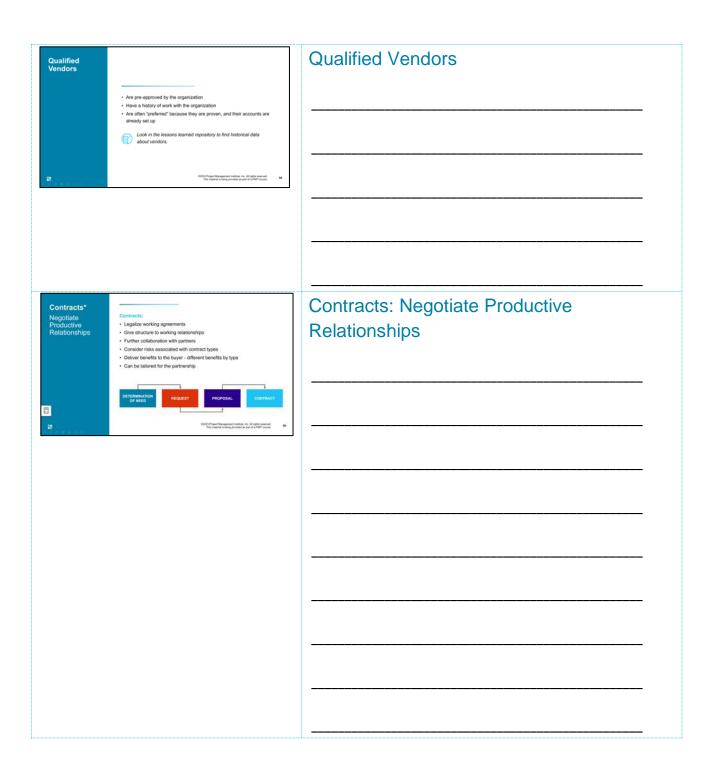


Procurement Management Plan	Specifies the types of contracts that will be used Describes the process for obtaining and evaluating bids Mandates standardized procurement documents	Procurement Management Plan Define/describe:
	Describes how providers will be managed Your organization's procurement function will be involved in developing the Jahn Now with them closely and use the cornect procurement documents to avoid problems. COUNTY The Management India, In., 41 apin served. The county of the provider print in Intil India. The India Incident Intil India Intil India Intil Intil India Intil Intil India Intil In	
Procurement Documents Bid and Proposal Activities	Statement of Work (SOW). Details of work required Request for quotation (RFQ). Biblender or quotation, including only cost Invitation for Bid (FB): Buyer requests expressions of interest in work. Request for information (RFP): Buyer requests more information from seller. Request for proposal (RFP): Buyer-issued statement of work required Expression of Interest (EOI): Seller-issued expression of Interest in work.	Procurement Documents: Bid and Proposal Activities
E	SSSE had blangement halden. In: All opin morrest. This activities being probable to paid if a NPP stoom. \$4.50.00.00.00.00.00.00.00.00.00.00.00.00.	
		Statement of work

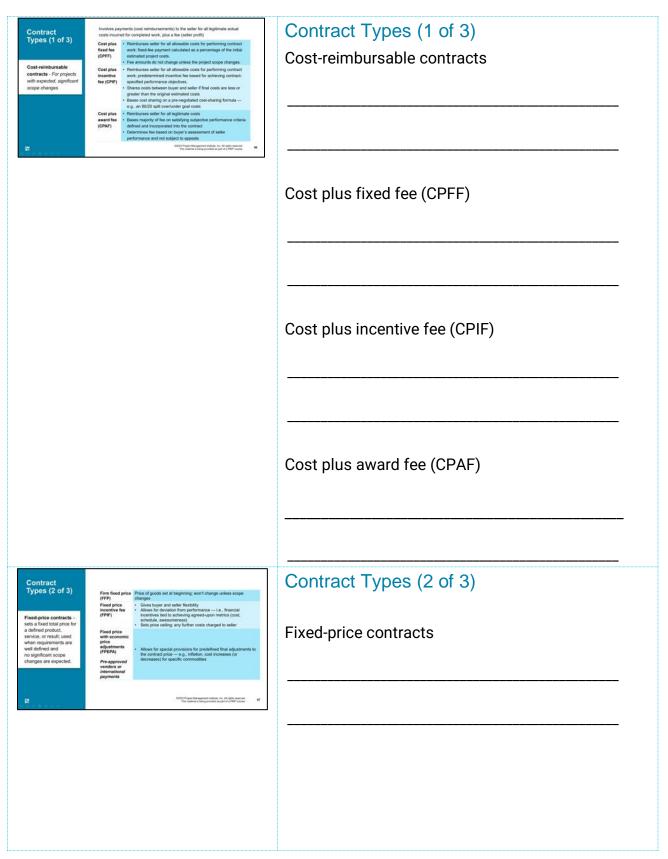


Formal Procurement Processes RFPs, Bidder Conferences Organizations in highly regulated industries or government Or, if a project needs specialist work or wants to find the best qualify available. Use RFPs, Bidder conferences, and formal processes to ensure all prospective workers have a clear and common understanding of the procurement Work closely with the procurement officer or department	Formal Procurement Processes: RFPs, Bidder, Conferences
	Request for proposal (RFP)
	Bidder conferences
Source Selection Criteria* Work with external resources whose values, stills and attributes are aligned with your project's. Technical capability Amagement approach **Technical approach **Technical approach **Technical approach **Promotion capacity **Production capacity and interest **Business size and type **Past performance of selens **Past performance of selens **References **Intellectual property rights **Proprietary rights **Technical approach **Proprietary rights **Technical approach **Proprietary rights **Technical approach **Technical app	Source Selection Criteria





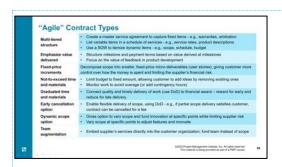






	Firm fixed price (FFP)
	Fixed price incentive fee (FPIF)
	Fixed price with economic price adjustments (FPEPA)
Contract Types (3 of 3)	Contract Types (3 of 3)
Time and material contracts Also called "time and means" Combine aspects of both cost-reimbursable and fixed-price contracts Used when a precise scope or statement of work is unavailable Used often for augmenting staff, acquiring experts or gaining external support	Time and materials contracts
\$500 These Bengament States, No. 45 Apr. Houseld States (States States S	





"Agile" Contract Types

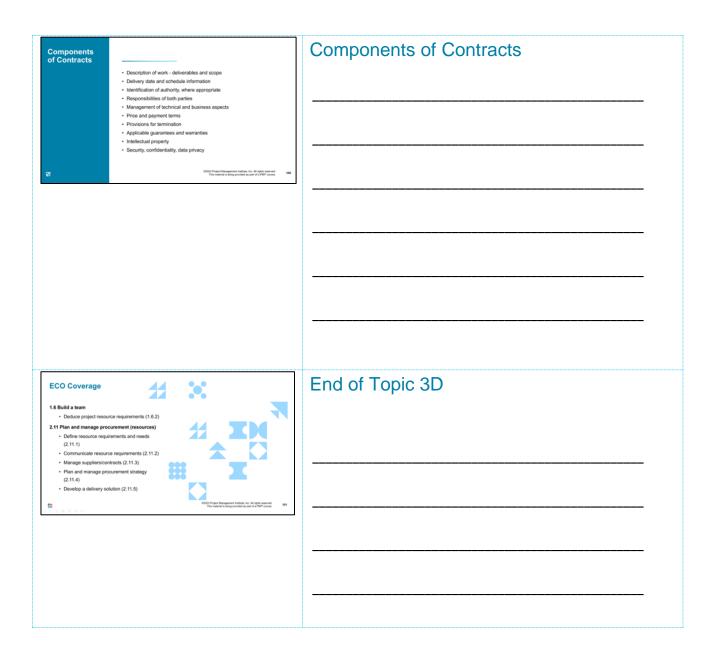
- Tailor contracts to suit needs.
- These contract types are not exclusive to agile projects.



The Agile Practice Guide – pp 77-78

Multi-tiered structure	
Emphasize value delivered	
Fixed-price increments	
Not-to-exceed time and materials	
Graduated time and materials	
Early cancellation option	
Dynamic scope option	
Team augmentation	







TOPIC 3E | BUDGET

ECO Coverage

- 2.5 Plan and manage budget and resources
 - Estimate budgetary needs based on the scope of the project and lessons learned from past projects (2.5.1)
 - Anticipate future budget challenges (2.5.2)
 - Plan and manage resources (2.5.4)



Topic 3E: Budget

In this area of planning, you determine the budget/finance structure, relationships and amounts for your project.

Will you be aligning a budget with scope and schedule requirements in a predictive life cycle?

Or collaborating with partners and internal finance stakeholders to craft a suitable financial solution, as the agile mindset suggests?

It's likely a combination of both! We'll look at both approaches and show the benefits of tailoring a budget.



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	Budget at completion (BAC)
	Cost baseline
Check with Organization Funding Limit Reconciliation Compare planned project expenditures of the schedule to level the state of expenditures of the schedule to level the rate of expenditures of expenditures of the schedule to level the rate of expenditures of the schedule to level the schedule the s	Check with Organization: Funding Limit Reconciliation
Historical Data Start with What's Known - Check lessons learned repository for budgets, estimates from previous, similar projects or data from the last illeration - Look for valuable cost-estimating information - both successes and shortcomings - Use analogous and estimating techniques, based on similar situations	Historical Data: Start with What's Known

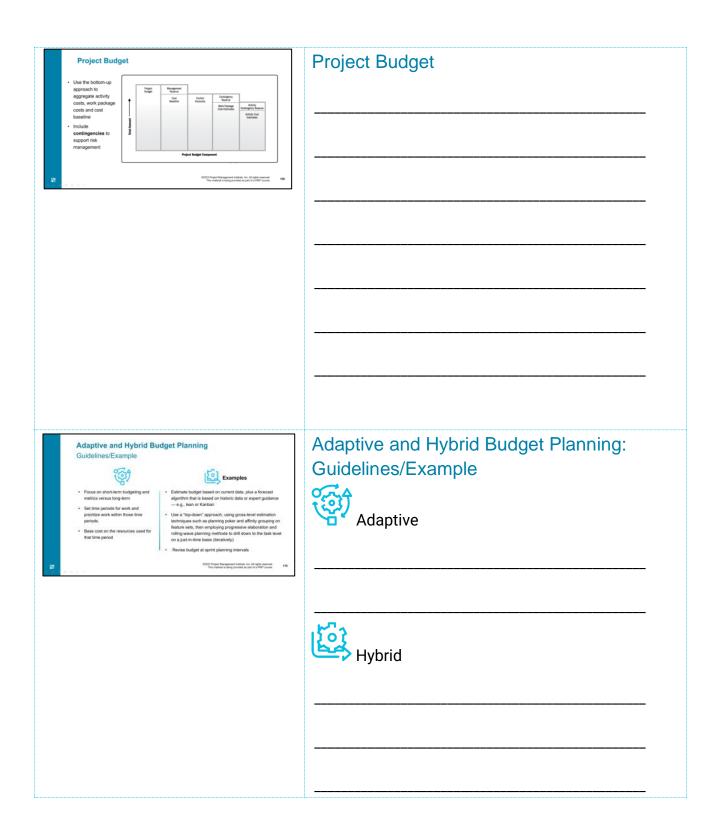


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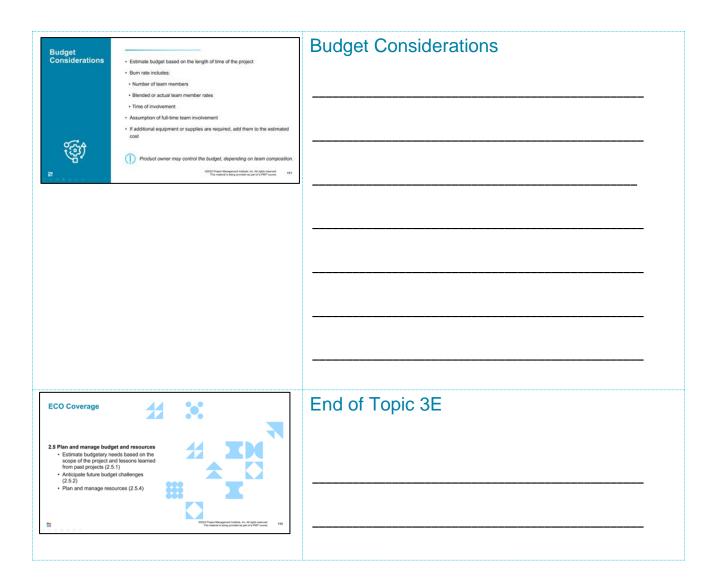




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TOPIC 3F | RISKS

ECO Coverage

- 2.3 Assess and manage risks
 - Determine risk management options (2.3.1)
 - Iteratively assess and prioritize risks (2.3.2)
- 3.1 Plan and manage project compliance.
 - Determine necessary approach and action to address compliance needs (risk, legal)
 (3.1.6)
 - Determine potential threats to compliance (3.1.3)



Topic 3F: Risks

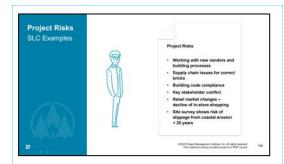
Things will go wrong on a project.

However, rather than being reactive to risk, we can be prepared with a strategy, a toolkit of possible responses and a growth mindset to be proactive about risk planning.



Risk Conditions of Uncertainty		Risk: Conditions of Uncertainty
	Risk originates from a wide range of known and unknown causes within and outside the business environment. Risk development is incladed by a trigger condition. Risks can be positive (opportunities) or negative (threats). If a risk becomes an issue, you must act!	Trigger condition
ा	GDID Proper Monagement handed, for African research. This stational is long provided as part of ATM research. 154	
		Opportunity
		Threat
		Issue







This example relates to the optional Shawpe (SLC) case study exercise (self-study) included with this course.

Project Risks SLC Example

Project Risks

- Working with new vendors and building processes
- Supply chain issues for correct bricks
- · Building code compliance
- Key stakeholder conflict (Josie Bynoe)
- Retail market changes decline of in-store shopping
- Site survey shows risk of slippage from coastal erosion < 25 years

This is a list of project risks, identified by the project manager and the team before the project starts.



	Risk:	Business	Context
--	-------	----------	---------

Business risk



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	Likelihood vs. probability
	Opportunity vs. threat
Create Risk	Create Risk Strategy
Strategy How would you describe the organization project's risk projects and suppositive? Pict undestand risk Pict undestand risk Appetite? Risk-seeking? Management Guidelines	Include data and attitudes of the organization as well
Project of the draws Filisk-neutral? Use qualifative (high, medium, log-neutral) The risk threshold is ted to (numerical) ratings (numerical) ra	as the project.
Which are too high to accept? Which are low enough to just be accepted?	Risk appetite
ISSUE Phase Management statuts. No. All spin secrent. This research is Soling procedure as part of a PMP course. 127	
	Risk threshold

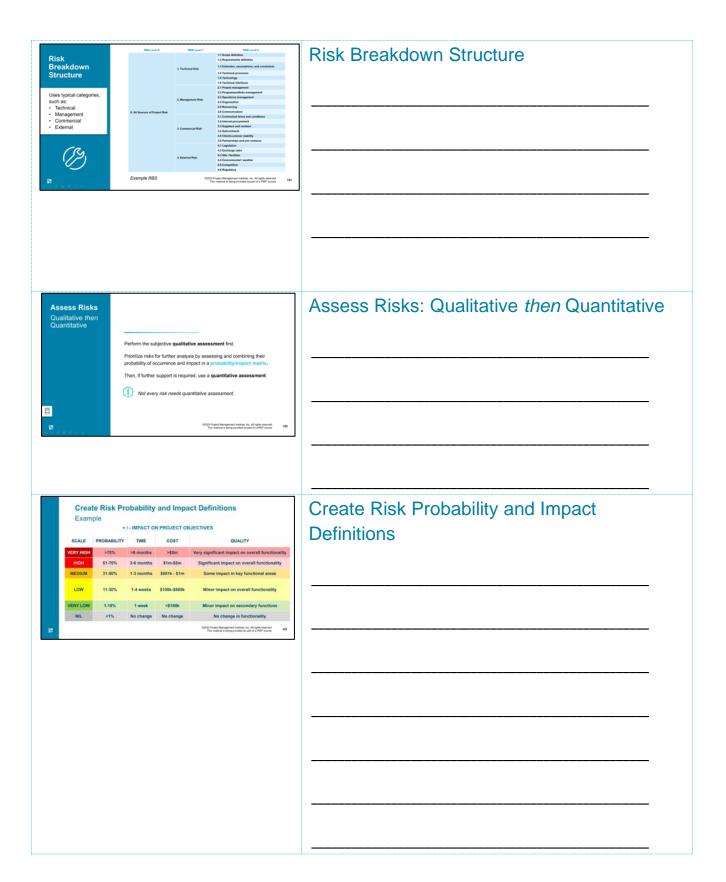


Define/Refine Risk Management Approach Factor in project characteristics: Size Complexity Importance Development approach Create a risk management plant Create a risk management plant To be probability and impact matrix Probability and impac	Define/Refine Risk Management Approach
	Factor in project characteristics:
Inherent Risk - Agile projects include risks in user stories and as part of backing you haves - Teams doos risks at planning meetings, during the normal course of work. - Teams glore risks in a risk register, use information radiators to ensure visibility and a backing refinement process that includes constant risk assessment. - Come 10	Inherent Risk Describe how Agile teams approach inherent risk: How do we calculate or determine inherent risk?

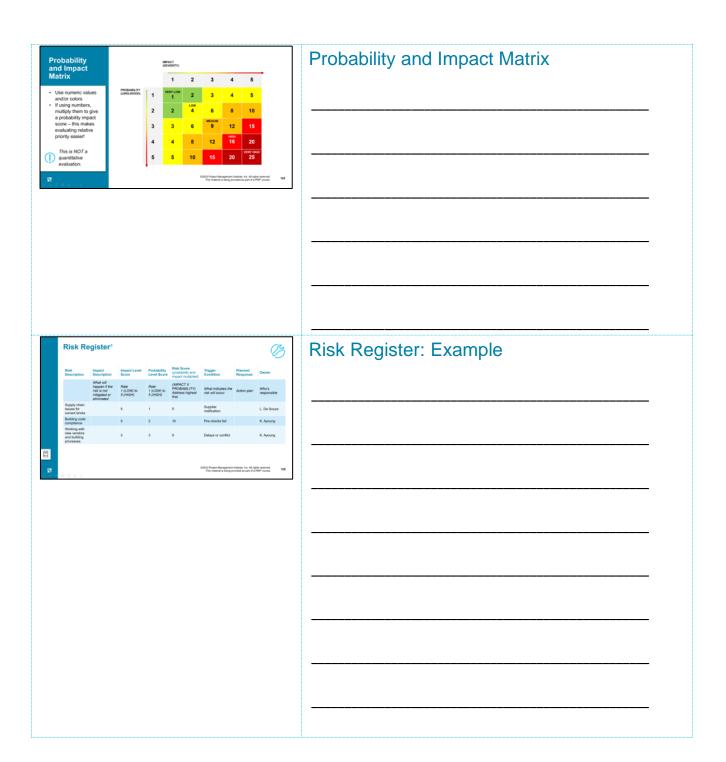


Risk Identification Techniques Use a prompt list to evaluate the external environment for risks. Brainstorming Nominal group technique SWOT analysis Affinity diagram - Assumption analysis Document review - Document review - Document review - Document review - Monte Carlo simulation (larger organizations) - Affinity diagram - Carlo simulation (larger organizations)	Risk Identification Techniques
	Prompt list
	Risk breakdown structure (RBS)
	Affinity diagram



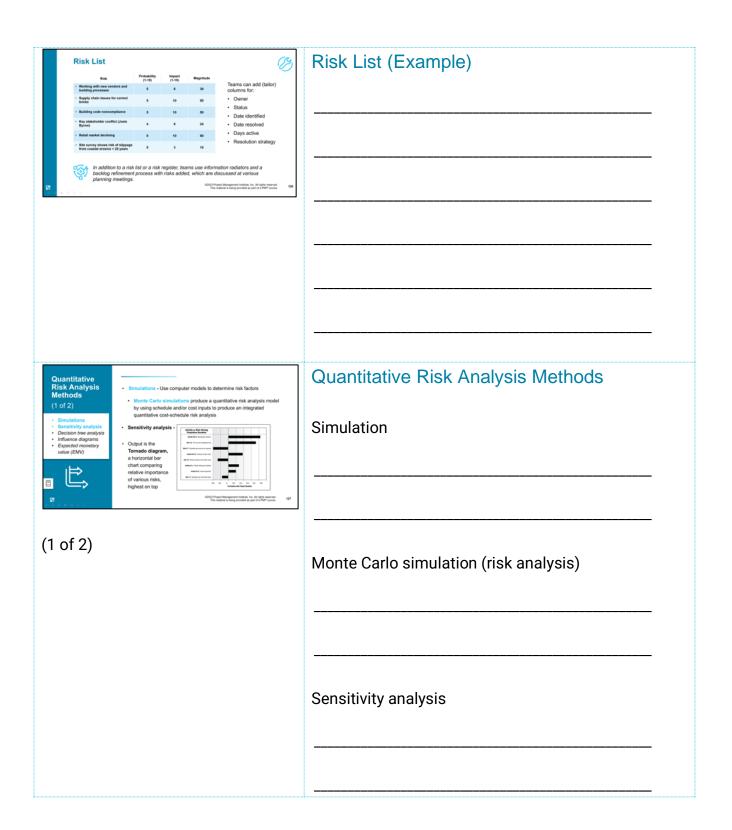








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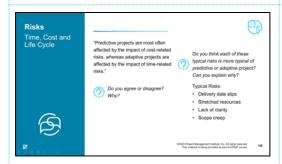






(2 of 2)

Decision tree analysis		
Influence diagram		
Expected monetary value (EMV)		



Delivery date slips:

Though adaptive projects use a dynamic scheduling model, controlling work in sprints/iterations using cadences and timeboxing, it's possible that customers want teams to work even faster, or the schedule rolls on and on with no "end" in sight from stakeholders' points of view.

Risks: Time, Cost and Life Cycle

Read this list of typical risks and think about how the project's life cycle affects the probability or severity of that risk. We did the first one for you (at left).

Example risks:

- Delivery date slips
- · Stretched resources
- Lack of clarity
- Scope creep



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Risk Response Good Practice Risk responses should be: Appropriate for the significance of the risk Cost effective Realistic within the project context Agreed by prelevant stakeholders Owned by a responsible person	Risk Response: Good Practice
Plan Risk Response Guidelines and Terminology - Natinger condition signals a risk can develop - Toam implements a risk response - A secondary risk can arise as a direct result of the risk response implementation - Residual risk can remain after risk responses have been implemented - Have a contingency (fallback) plan ready in case the primary risk response fails - The contingency reserve (or allowance) is the budget within the cost baseline that is allocated for identified risks and their response strategies	Plan Risk Response: Guidelines and Terminology Secondary risk Residual risk
	Contingency plan



	Contingency reserve
Risk Response Strategles Prepare strategies for threats (negative) as well as opportunities (positive) and for individual project risks and overall project risk. ESCALATE ES	Risk Response Strategies Threat
	Opportunity
2.3 Assess and manage risks Determine risk management options (2.3.1) I lerardively assess and prioritize risks (2.3.2) 3.1 Plan and manage project compliance Determine necessary approach and action to address compliance needs (risk, legal) (3.1.6) Determine potential threats to compliance (3.1.3)	End of Topic 3F



TOPIC 3G | QUALITY

ECO Coverage

- 2.7 Plan and manage quality of products/deliverables
 - Determine quality standard required for project deliverables (2.7.1)
- 3.1 Plan and manage project compliance
 - Use methods to support compliance (3.1.4)
 - Measure the extent to which the project is in compliance (3.1.7)



Topic 3G: Quality

Planning for quality applies to the outcomes and deliverables as well as the processes used in the project.



Cuality The degree to which a set of inherent characteristics fulfill requirements. Include: • Stakeholder expectations and end-user satisfaction • Complance with standards and regulations; • Continuous improvement **Continuous improvement** **Cont	Quality
Cost of Quality (CoQ) Money spent during project to avoid failure - Prevention costs (Build a quality product) - Training - Document processes - Equipment - Time to do work "right" - resources, inflatious/busher expenses - Appraisal (quality assessment) - Trasting - Inspections - Money spent during/lafter project because of failures - Internal failure costs - Revork - Scrap - External failure costs - Lubilities - Lubilities - Warrandy work - Lost business	Cost of Quality (CoQ)
Cost of Quality is based on Philip Crosby's Quality is Free.	







Quality Management Plan - Activities and resources that activere the quality objectives - Format or informat, detailed or broady fearned - Reviewed Proughout the project - Benefits: - Sharper focus on the project's value proposition - Cost reductions - Mitigated schedule oversums from revork	Quality Management Plan
Compliance Requirements Stema and external standards, such as: - A perspective greatering planties - Project and groped quality repartments - Project and groped guality repartments - Project and groped guality repartments - Project and groped guality repartments - A relays the corresponses of norcompliance - A relays the corresponses of norcompliance - Outerment access of personal and addition to addition to addition to replace the correspondence of	Compliance Requirements Internal and external standards, such as: Compliance actions Compliance actions



Cuality Standards and Regulations Standards Standards Standards Documents established as a model by an authority, outlain, or by general consent. Regulations Regulations Characteristics, including agriculate administrative previousm with general convent. Do facto standards or regulations Do juns shandards or regulations Do juns shandards or regulations A number of international realities are devoted to quality, including: A number of international realities are devoted to quality, including: A number of international realities are devoted to quality, including: A number of international realities are devoted to quality, including: A number of international realities are devoted to quality, including: A strike international realities (COO) A STM International Coopy Page Value product state, is in draps waved for a standard in the product of page state.	Quality Standards and Regulation
	What standards are relevant in your industry?
Discussion Quality Standards and	Discussion: Quality Standards and Regulations
Quality Standards and Regulations What standards and regulations are relevant in your industry? Calculations **Comparison of the Comparison of the Compar	
Note your and other participant responses to this discussion question, as it helps you to frame project	
management content in scenario format.	







TOPIC 3H | INTEGRATE PLANS

ECO Coverage

- 2.9 Determine appropriate project methodology/ methods and practices
 - Consolidate the project/phase plans (2.9.1)
 - Assess consolidated project plans for dependencies, gaps, and continued business value (2.9.2)
 - Analyze the data collected (2.9.3)
 - Collect and analyze data to make informed project decisions (2.9.4)
 - Determine critical information requirements (2.9.5)

2.10 Manage project changes

• Determine strategy to handle change (2.10.2)

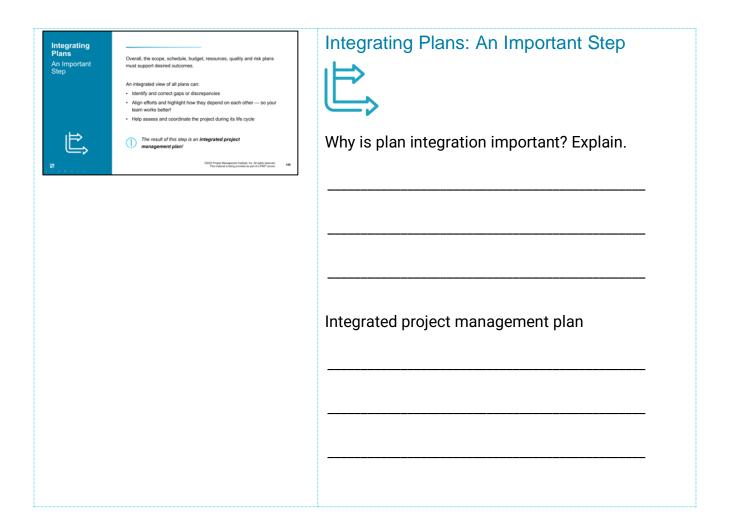


Topic 3H: Integrate Plans

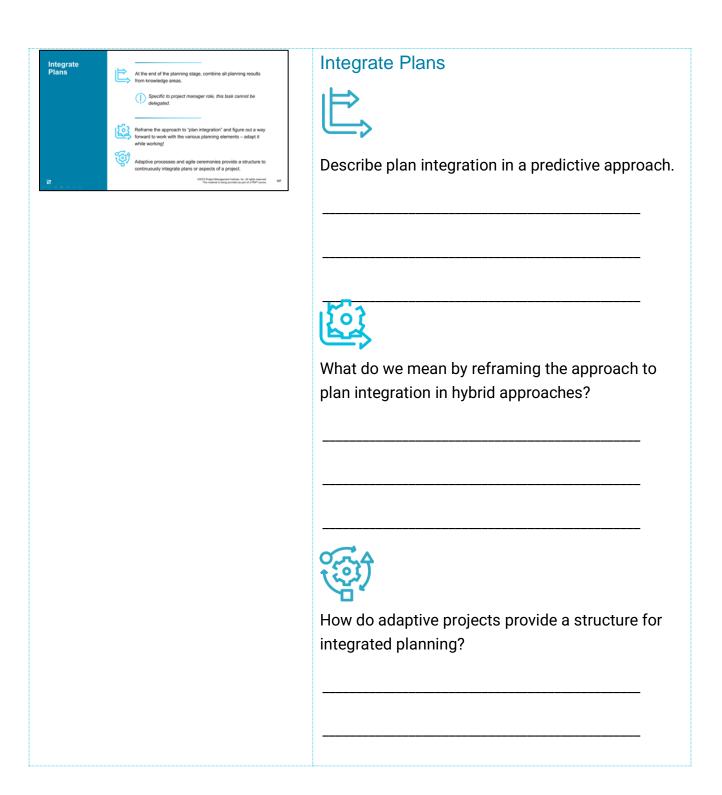
Finally, project professionals integrate all planning activities to support the activities to deliver the vision and expected value. The key to doing this as seamlessly as possible is having an effective strategy for **change management**.

This topic addresses both the predictive process of project plan integration and change management that is required of all projects.

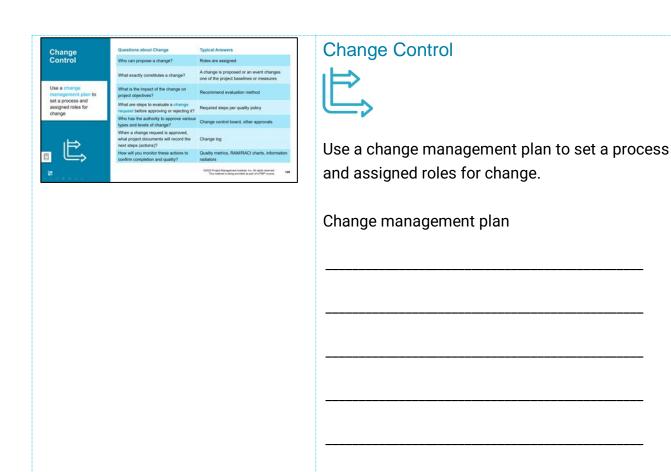












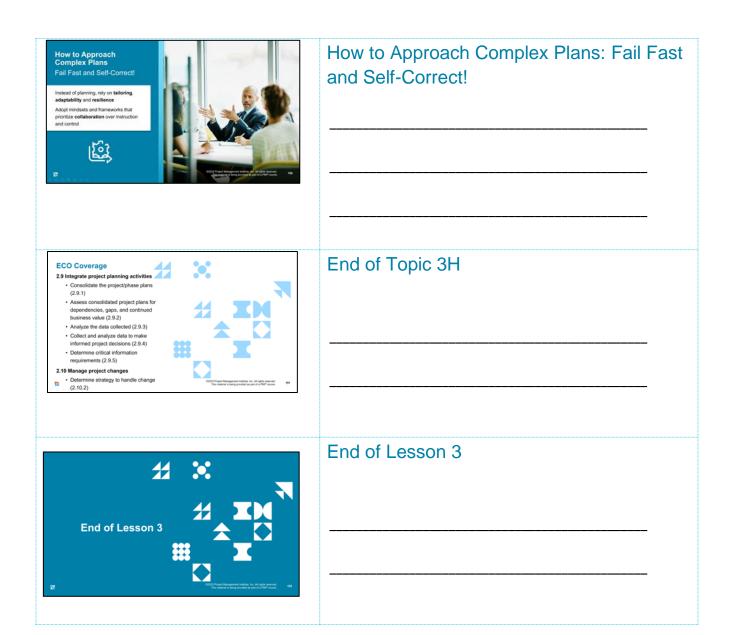


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Change request (CR)

	 Plan for Complexity and Change Organization's system Human behavior Uncertainty or ambiguity 	Decoupling: Disconnect parts of the system to simplify it and reduce the number of connected variables system or immunities or semilar, unrelated scenarios to by to understand the complexity or Reframe the Problem Diversity: View the system from different perspectives Balance: Reconsider the type of data used Process-Based Interior Plan Internatively or incommentally, add features one at a time.	Plan for Complexity and Change Organization's system Human behavior Uncertainty or arröguty
	Systems-based		
-			
-			
	Reframe the problem		
-			
_			
	Process-based		
-			
-			
	Uncertainty or ambiguity Systems-based Reframe the problem	Therate: Plan heratively or incrementally, add features one at a time Engage: Really engage with stakeholders Fall safe: Plan for failure	









LESSON 4 | LEAD THE PROJECT TEAM

Description

There are many ways to lead a team. No one approach is perfect for every situation. The appropriate leadership style depends on the situation, the project, the stakeholders, your skills, and many other factors. Project professionals must be astute in various leadership styles to apply and knowledgeable about tailoring leadership to the team and project needs.



Learning Objectives

- · Discuss the guidelines for developing leadership competencies and skills.
 - Address leadership styles, and the components of leading a successful team, either in person or virtually.
- · Describe artifacts and the strategies for their use.
- · Identify the characteristics and core functions of empowered teams.
- Explain strategies and forms of communication for collaborating in a project team environment.
- · Learn the value of training, coaching and mentoring for a team.
- · Explain the importance of conflict management.
- · Discuss the causes and levels of conflict and their outcomes.

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Topics

- A. Craft Your Leadership Skills
- B. Create a Collaborative Project Team Environment
- C. Empower the Team
- D. Support Team Member Performance
- E. Communicate and Collaborate with Stakeholders
- F. Training, Coaching and Mentoring
- G. Manage Conflict



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Lesson 4 Notes

TOPIC 4A | CRAFT YOUR LEADERSHIP SKILLS

ECO Coverage

- 1.2 Lead a team
 - Value servant leadership (e.g., relate the tenets of servant leadership to the team) (1.2.3)
 - Determine an appropriate leadership style (e.g., directive, collaborative) (1.2.4)
 - Distinguish various options to lead various team members and stakeholders (1.2.7)
- 1.11 Engage and support virtual teams
 - Implement options for virtual team member engagement (1.11.3)



Topic 4A: Craft Your Leadership Skills

Teams are made up of individuals with different skill sets, backgrounds, experiences, and attitudes.

Cohesive, collaborative teams typically are productive and effective. Leadership is a trait required of everyone on the project team. If you are the project manager or team lead, then you also need to lead on leadership!

This topic corresponds to the "People" domain of the ECO and the "Power Skills" side of the PMI[®] Talent Triangle.



Project professionals use interpersonal 'power skills,' including collaborative leadershy, continuitation, an innovative mindset, for-purpose orientation and empathy. Teams with these skills can maintain influence with a variety of stakeholders — a critical component for making change.	Power Skills
	What are your strongest and weakest leadership skills?
Guidelines for Developing Inclusive Leadership Competencies - Tailor your leadership approach and style - Laid with empathy - Undestand that motivations and working styles vary - Maintain transparency and openness to build trust - Ensure external resources are included	Guidelines for Developing Inclusive Leadership Competencies

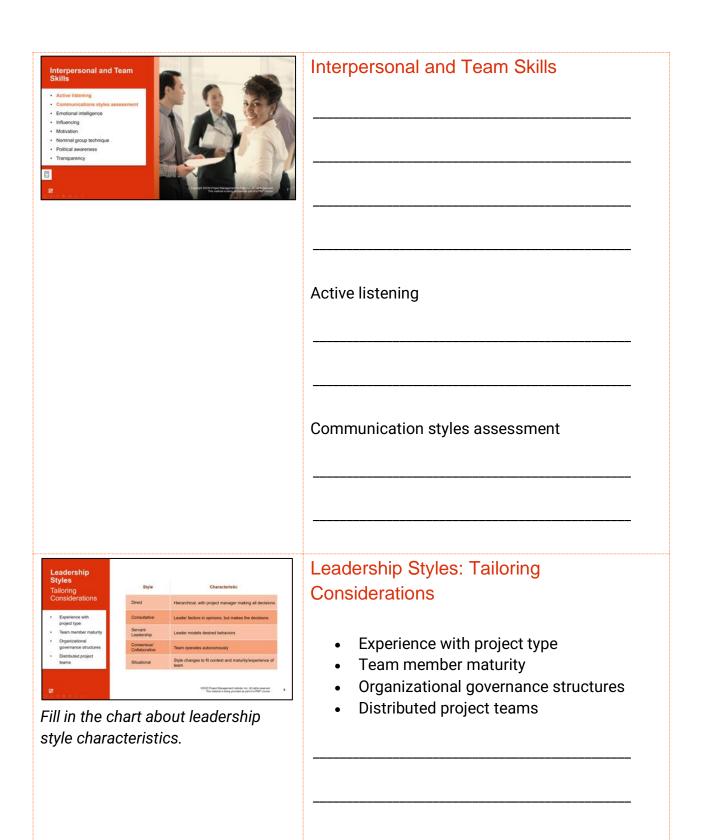




Leadership Skills and Competencies

- Communication
- Conflict management
- Critical thinking
- Cultural awareness
- Decision-making
- Emotional Intelligence Technique (EQ or EI)
- Ethical approach (PMI Code of Ethics and Professional Conduct)
- Expert judgment
- Facilitation
- Meeting management
- Negotiation
- Networking
- Team building







Leadership Style	Characteristics	
Direct		
Consultative		
Servant Leadership		
•		
Consensus/		
collaborative		
Situational		

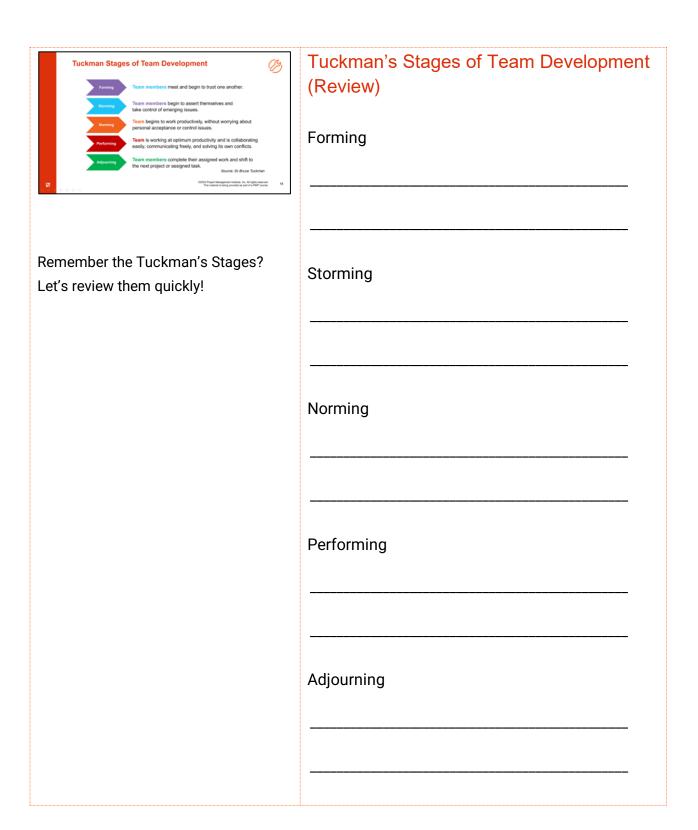


	·
Leadership ≠ Management Leadership - Guiding the team by using discussion and an exchange of ideas Management - Directing actions using a prescribed set of behaviors • Adapt leadership style to situations and stakeholders • Be aware of individual and team aims and working relationships • Use political awareness and emotional intelligence	Leadership ≠ Management What are the differences between these concepts?
Servant Leadership - Facilitate rather than manage - Provide coaching and training - Remove work impediments - Foous on accomplishments - Foous on accomplishments - Encourage every team member to be a servant leader	Servant Leadership Do you perform as a servant leader at work? How have others demonstrated servant leadership traits?
We have introduced servant leadership already, so you can use this opportunity to focus on specific leadership tasks associated with the role.	

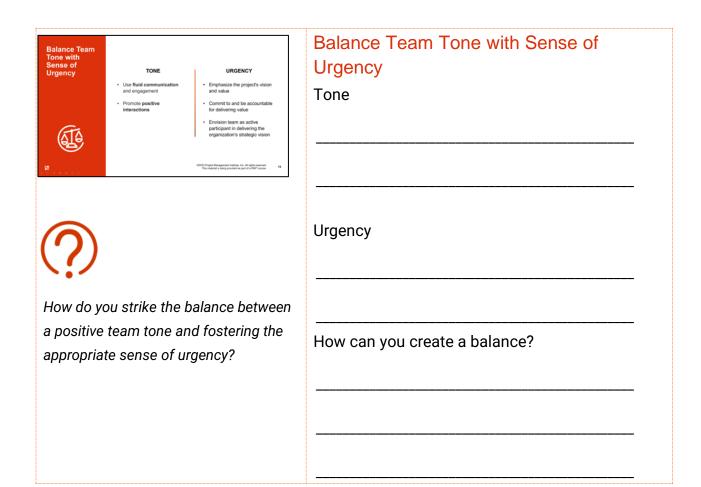


Adopt a Growth Mindset Adopt a Growth Mindset Growth mindset Avoid complacency and blind acceptance **Team Building** Team-Building

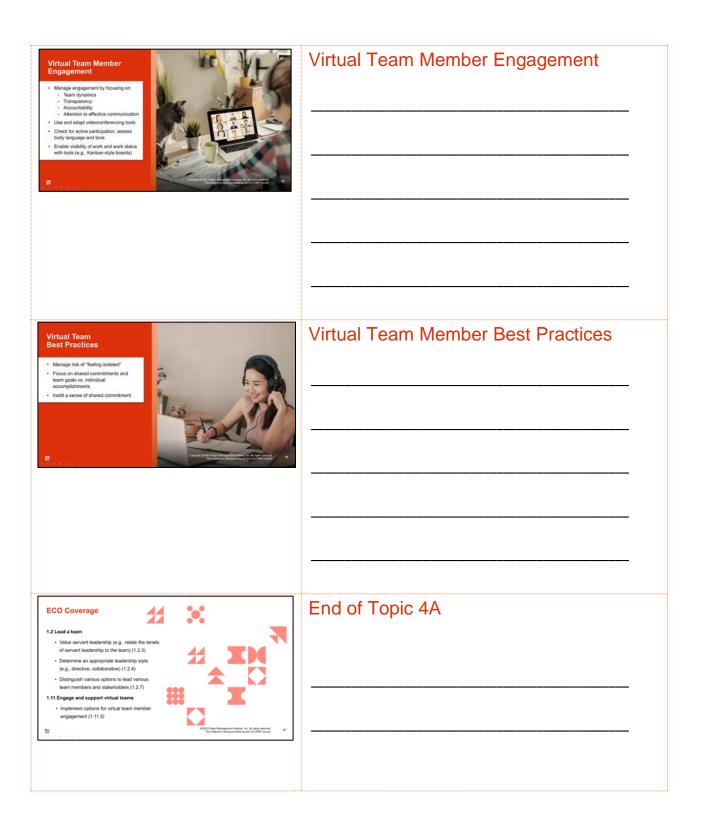














TOPIC 4B | CREATE A COLLABORATIVE PROJECT TEAM ENVIRONMENT

ECO Coverage

2.12 Manage project artifacts

- Determine the requirements (what, when, where, who) for managing the project artifacts (2.12.1)
- Validate that the project information is kept up to date (i.e., version control) and accessible to all stakeholders (2.12.2)



Topic 4B: Create a Collaborative Project Team Environment

We just discussed leading the people in your project. Now let's look at best practices for ensuring work can happen smoothly. This topic includes creating a structure for physical and virtual working, including workspace management, project artifact and document creation, and configuration management.



 Colocation, if possible, is best! 	
 Factor in environment and location to team performance 	
 Foster meaningful interaction to support autonomy 	200
 Respect agreed team working hours are practices (ground rules) 	nd Salah Sal

Where and How the Team Works

Prioritize:

- Colocation
- Environment
- Meaningful interaction
- Ground rules









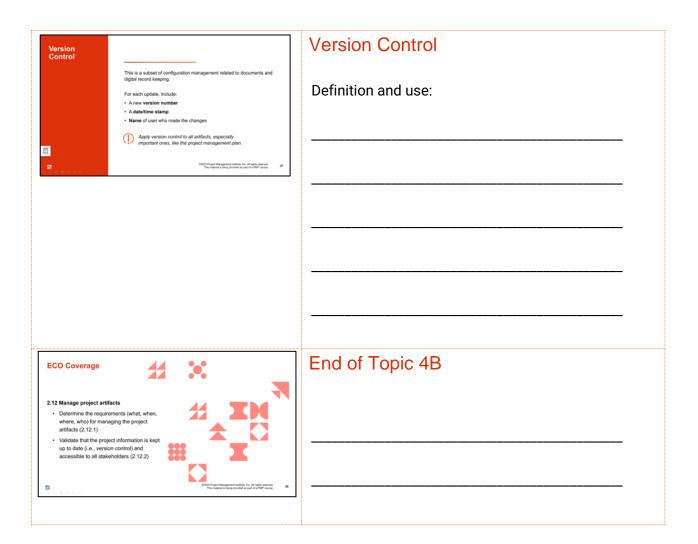


Information Storage and Distribution Good Practices - Select an accessible location - Use information radiators to make work visible - The storage and distribution system should match the complexity of the project - Use cloud-based systems for larger projects. Sepecially if sam members are geographically distributed	Information Storage and Distribution Good Practices
Standardize Artifacts What to Include - A simple way to produce and control documents - Standardized formats and templates - A structured process for the review and approval of documents - Version control and security - Timely distribution of documents	Standardize Artifacts: What to Include











TOPIC 4C | EMPOWER THE TEAM

ECO Coverage

- 1.2 Lead a team
 - Support diversity and inclusion (e.g., behavior types, thought process) (1.2.2)
 - Inspire, motivate, and influence team members/stakeholders (e.g., team contract, social contract, reward system) (1.2.5)
- 1.4 Empower team members and stakeholders
 - Determine and bestow level(s) of decision-making authority (1.4.4)



Topic 4C: Empower the Team

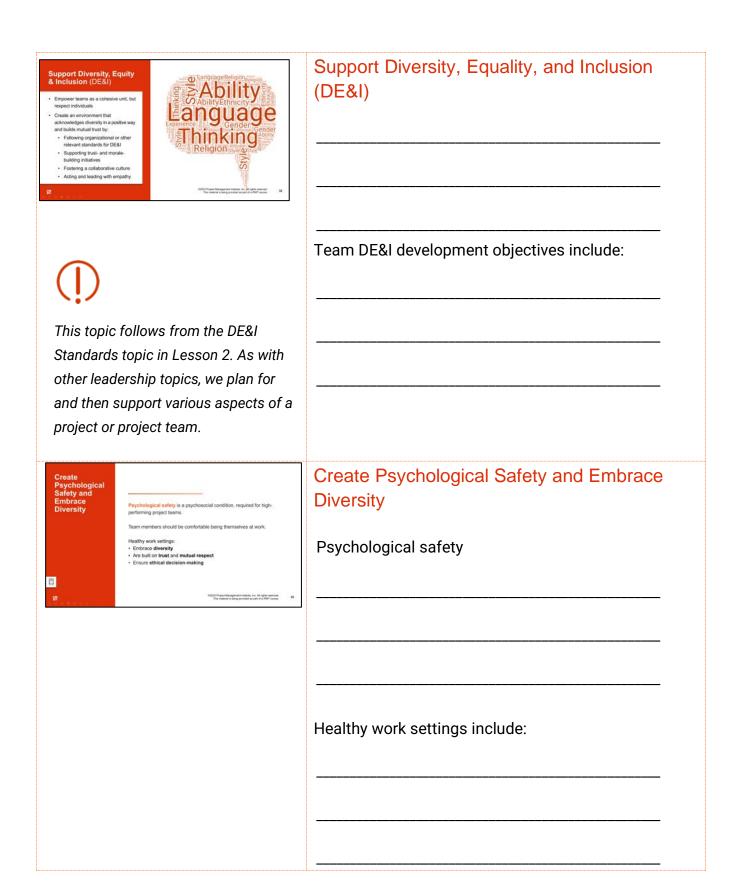
The idea of empowerment is a critical part of the agile mindset. Predictive team environments can also benefit from empowered team members who can assist project managers in making decisions based on their expert judgment.

In all contexts, strive to create an environment where individual team members are empowered to contribute ideas.



Empower Teams with EI and Fluid **Empower Teams with El and Fluid Communication** Communication In 2016, "After years of analysing interviews and data from more than 100 teams, [Google researchers] found that the drivers of In 2016, "After years of analyzing interviews and data effective team performance are the group's average level of emotional intelligence and a high degree of from more than 100 teams, [Google researchers] communication between members.' found that the drivers of effective team performance are the group's average level of emotional intelligence and a high degree of communication between members." From "Great Teams Are About What are your thoughts about these findings, and how Personalities, Not Just Skills" are they related to empowering a team? by Dave Winsborough and Tomas Chamorro-Premuzic. Harvard Business Review, January 25, 2017. Accessed online 12/2022. Empowerment, Unity, Autonomy Goal:









Motivational Theories/Approaches

How well do you know:

- Maslow's Hierarchy of Needs
- · Herzberg's Motivation-Hygiene Theory
- McGregor's Theory X and Y
- McClelland's Achievement Motivation Theory

	Maslow's Hierarchy of Needs
	SELF-ACTUALIZATION
	ESTEEM
	BELONGING
	SAFETY
	PHYSIOLOGICAL
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Maslow's Hierarchy of Needs

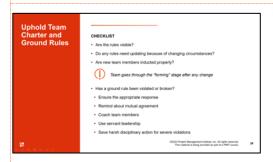


Herzberg's Motivation-Hygiene Theory aka Two-Factor Theory WGIENE FACTORS MOTIVATORS ADVANCEMENT RECOGNITION ENVIRONMENT FROAGEMENT AND AGEMENT AND AGEME	Herzberg's Motivation-Hygiene Theory (aka Two-Factor Theory)
McGregor's Theory X and Theory Y	McGregor's Theory X and Theory Y
(authoritation) Theory X managers are often called "lobs" fash coned," but can give management style is height." • Workers distilize and avoid work of people avoid increased responsibility on which the management style is height." • People need to be directed • People need to be directed • They do not require direction • They do not require direction	Theory X
	Theory Y





McClelland's Achievement Motivation Theory



Uphold Team Charter and Ground Rules

Checklist:

- Visibility
- Updated rules because of changes
- New team member induction
- Ground rule violations

Think of the ground rules as a means of creating empowerment and cohesion. The role of ground rules in managing conflict is explored in upcoming Topic 4G:
Manage Conflict.

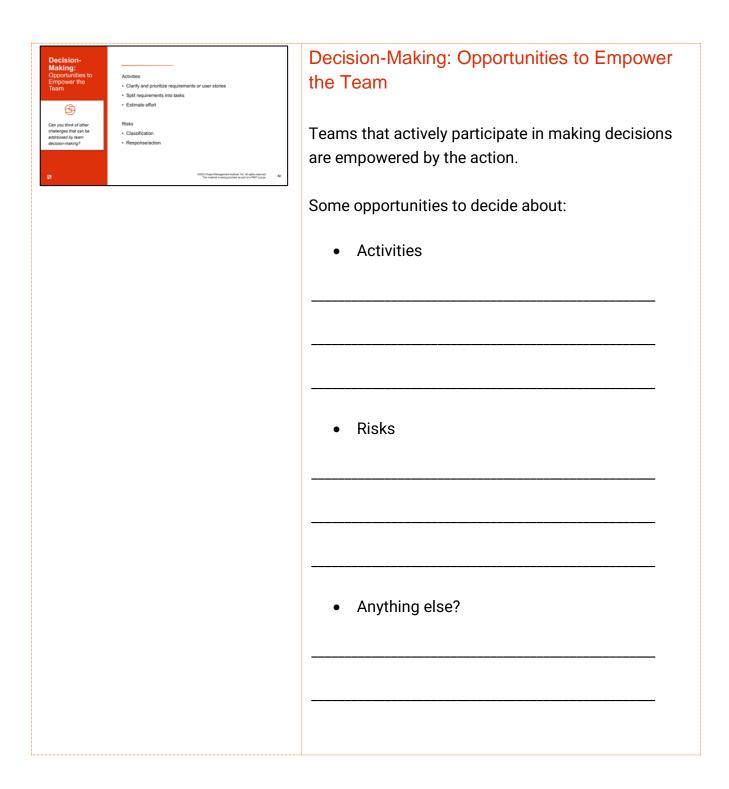
empower teams?		
	 	

How do the team charter and the ground rules help to



Use Rewards and Recognition - Tangible, consumable items - For a specific outcome or achievement - Use to motivate toward a specific outcome - Never reward without recognition! - Be transparent and judicious when using rewards and	Use Rewards and Recognition Rewards
recognition. Monitor for any negative effects resulting from misplaced competitiveness or animology. 10000 Trays Response Helmin. In: All spin-second from the second scale of a feet from th	
	Recognition
Decision-Making Empower the Team to Act Team charter identifies decision-making and conflict resolution orienta Teams establish their own norms or Way of Viroling (Work) for making decisions and conflict resolution Teams always by to achieve consensus	Decision-Making: Empower the Team to Act Consensus





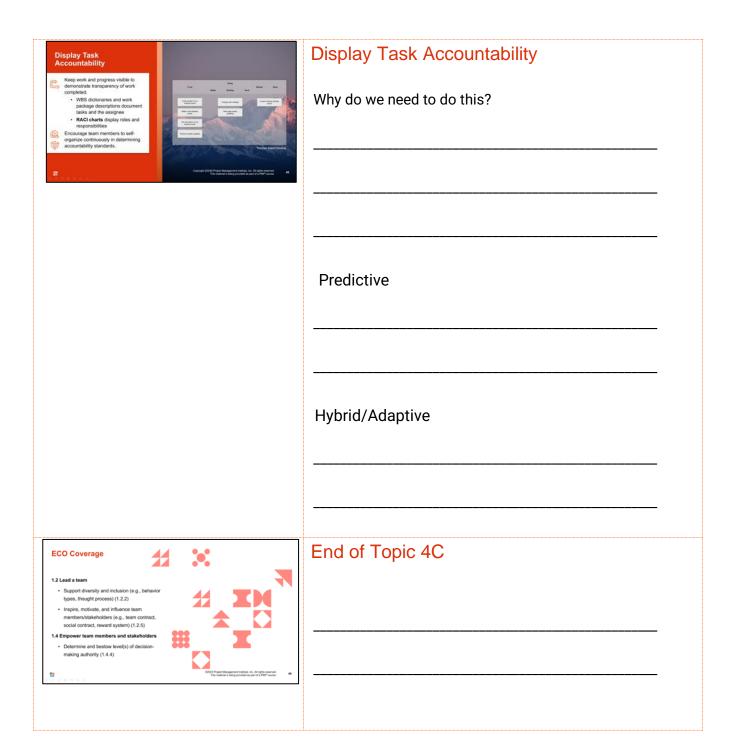


]	B · · · NA · · · NA · · ·
Decision-Making Me	ethods	Decision-Making Methods
Voting	Collective decision-making and assessment Determines several alternatives, with future actions as the	
Consensus-driven, based on data	expected outcome Use to generate, classify, and prioritize product	
Multicriteria decision analysis	Method - Establish criteria in decision matrix – e.g. risk	
Data-driven	levels, uncertainty and valuation Uses a systematic, analytical approach Evaluate and rank many ideas	
Autocratic decision making Leadership-driven, based on	One team member decides for the group.	
data	one state minimum actions on the group.	
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Voting		
Multicriteria		
decision		
analysis		
dialysis		
Autocratic		
decision		
making		



Decision-Making Voting	Decision-Making Methods Voting		Decision-Making Methods: Voting	
UNANIMITY Everyone agrees on a single course of action. Useful in project teams with great cohesion. Example: Depth decrinque MAJORITY Decisions reached with > 50% of group support Create groups of an userier number of parcispants to ensure decisions are made and avaid by the costadhess! PURALITY Decisions reached with largest block in a group decising, even if majority is not achieved. Use this method when more than two options are nominated. **Only only on the control of		Voting methods to reach consensus Fist of Five Flanning poker Dot voting Roman voting (thumbs) Folling	Voting methods:	
* * 0 0 0				
Unanimity				
Majority				
Plurality				







TOPIC 4D | SUPPORT TEAM MEMBER PERFORMANCE

ECO Coverage

- 1.3 Support team performance
 - Appraise team member performance against key performance indicators (KPIs) (1.3.1)
 - Support and recognize team member growth and development (1.3.2)
 - Determine appropriate feedback approach (1.3.3)
 - Verify performance improvements (1.3.4)
- 1.14 Promote team performance through the application of emotional intelligence
 - Assess behavior through the use of personality indicators (1.14.1)
 - Analyze personality indicators and adjust to the emotional needs of key project (1.14.2)



Topic 4D: Support Team Member Performance

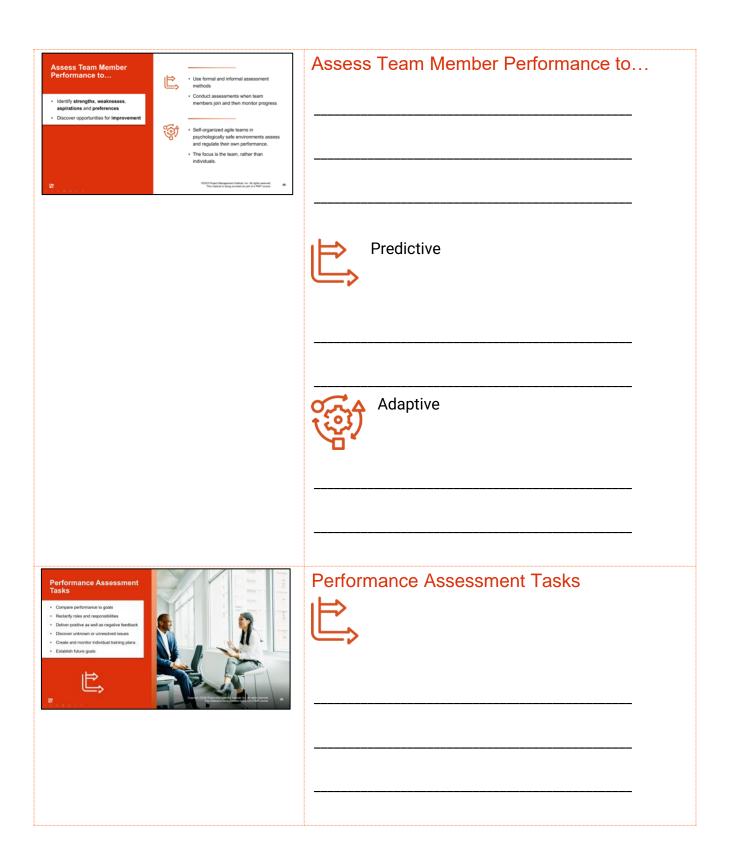
Supported team members perform better and are motivated to do their best work. You'll need strategies to maintain support for individuals on the whole team. These are mainly focused on emotional intelligence and communication.

Please note that though this topic title is very similar to the title of Lesson 5, this section is about supporting **individuals**.



Manage and Lead	Management by Objectives Uses clear objectives to guide productivity and encourage aspiration	Servant Leadership Three steps: 1. Define vision	Manage and Lead
	Set objectives collaboratively with team members Create challenging, yet attainable, objectives At the start of a project or phase Throughout the project life cyde, as in an iteration planning session	Align people to that vision Motivate people to pursue the vision	Management by Objectives
Ħ		60000 Proport Management healthisk Inc. 46 legists reserved. This colored is being proteins as part of a PMP colored.	
			Servant Leadership – Three steps:







Personality Indicators Look Beyond Introvert	Personality Indicators: Look Beyond Introvert/Extrovert
	Commonly used tools
DO:	DON'T:

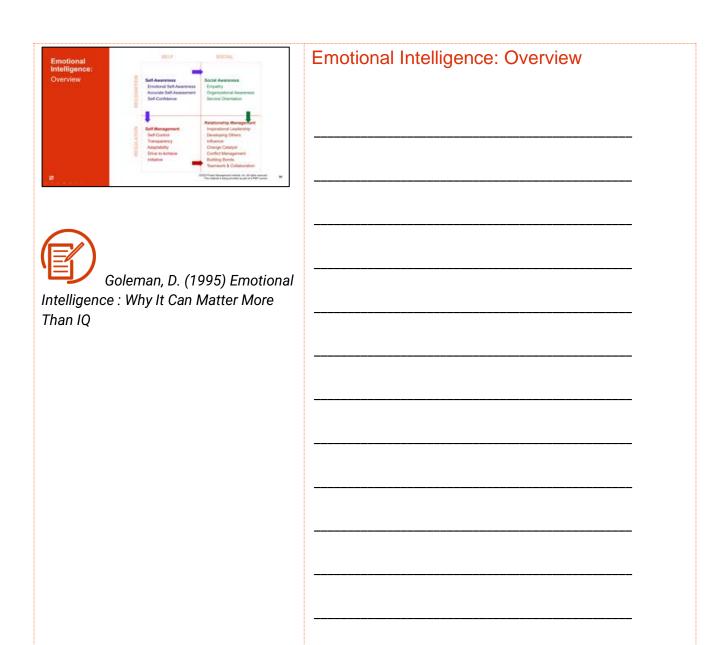


Personality Research to Coach Team Members Personality can affect: - What role you have within the team - How you interact with the rest of the team - Whether your values (core belefs) align with the team's	Use Personality Research to Coach Team Members
Psychological team roles: Results-oriented Res	Personality can affect
	Psychological team roles
	Using the list of psychological team roles, which types of project tasks or process roles would you associate them with?
	associate them with?



Emotional Intelligence Five main components:	Emotional Intelligence - 5 components
	Emotional self-awareness
Emotional self- Self- Motivation Empathy Social skills awareness regulation 6007 hour Newsparen midth, loc. All right owned to see second in temperature and in the second in the second in temperature and in the second in temperature and in the second in the second in temperature and in the second i	
	Self-regulation
	Motivation
	Empathy (discussed in more depth in next slides)
	Social Skills







Empathy Provides a foundation for undentanding the motivations of other people. Empathwise traits that make individuals more able to combinate to collectantive, high-performing learns. Inward (helps individuals) (helps individuals) - others - others - Service - since policial - inwarge obversity - service - since policial - awareness	Empathy	
	Inward	
	Outward	
Social Skills	Social Skills	
High-performing team members are adept at: - Communicating - Building bonds - Collaboration and cooperation - Catalyking change - Managing conlict - Influencing - Leadership		



Motivation Elements	Motivation Elements
Ø ② ⊗	Achievement/drive
Achievement/Drive - Set tough goals, Laber chances based on have goals as the chances based on have goals as the second of the failure constitute goals as the second of the failure goals as the second of the failure goals as the second of the failure goals as under your exhaust goals as under your control exhaust goals as under your control exhaust goals as under your control exhaust goals regardless of barriers goals and the second of the secon	
	Commitment
	Initiative
	Optimism



ECO Coverage		End of Topic 4D	
1.3 Support team performance	_		
 Appraise team member performance against key performance indicators (KPIs) (1.3.1) 	•		
 Support and recognize team member growth and development (1.3.2) 	# TM		
 Determine appropriate feedback approach (1.3.3) 			
 Verify performance improvements (1.3.4) 			
1.14 Promote team performance through the application of emotional intelligence			
 Assess behavior through the use of personality indicators (1.14.1) 	*** A		
 Analyze personality indicators and adjust to the emotional needs of key project stakeholders (1.14.2) 			
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TOPIC 4E | COMMUNICATE AND COLLABORATE WITH STAKEHOLDERS

ECO Coverage

- 2.2 Manage communications
 - Communicate project information and updates effectively (2.2.3)
 - Confirm communication is understood and feedback is received (2.2.4)
- 1.2 Lead a team
 - Analyze team members' and stakeholders' influence (1.2.6)
- 2.4 Engage stakeholders
 - Engage stakeholders by category (2.4.3)
- 1.9 Collaborate with stakeholders
 - Optimize alignment between stakeholder needs, expectations, and project objectives (1.9.2)
 - Build trust and influence to accomplish project objectives (1.9.3)
- 3.2 Evaluate and deliver project benefits and value
 - Apprise stakeholders of value gained by the project (3.2.5)



Topic 4E: Communicate and Collaborate with Stakeholders

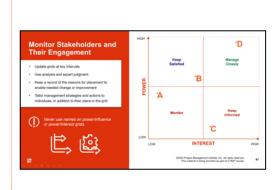
Information, relationships, progress — everything depends on successful communication. We discussed how to plan for it in lesson 2, topic A: "Identify and Engage Stakeholders."

Now we move into execution and to explore effective communication and collaboration with stakeholders.



"Communication is the real work of leadership." "Bit Reference Communication is the real work of leadership." "Bit Reference Communication of the derivated Business School, 2010-2020	"Communication is the real work of leadership"
Communications are both personal and	
strategic. As a project leader, you need	
to manage volumes of informal and	
formal conversations, emails	
documents and so on.	
You also must establish healthy, collaborative working relationships within the team and with stakeholders.	
Project managers spend a great deal of time communicating with stakeholders, so it is important to ensure the right information is getting to the right stakeholder so timely decisions can be made, issues addressed, and expectations met.	
Collaboration with stakeholders looks different in each project, but let's look at some general guidelines.	





Monitor Stakeholders and Their Engagement

Review continuously and update the matrix.





Communications Management Plan

Components:

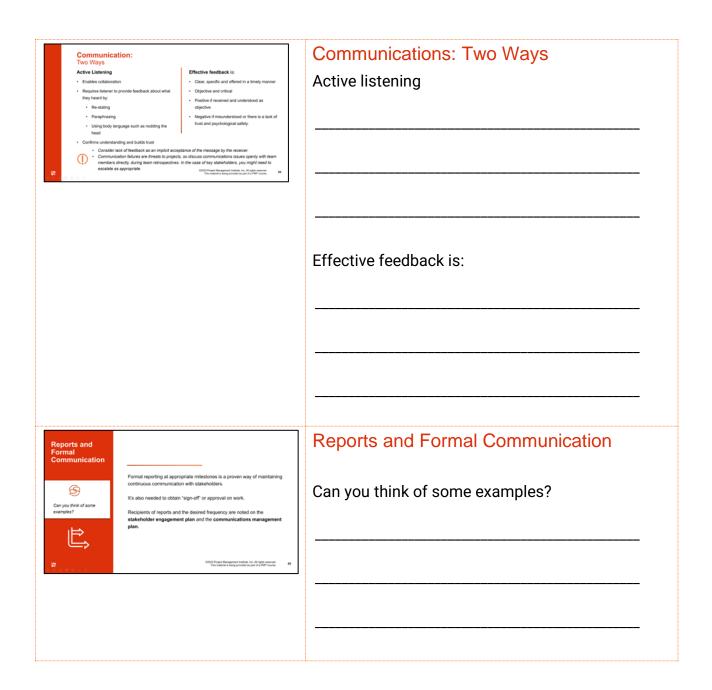
- Team member and stakeholder identification
- Stakeholder communication requirements
- Processes/guidance/templates
- Project information

Team member and stakeholder ID
Stakeholder communication requirements
Processes/guidance/templates
Project information:



Managing Project Communications: Communications Matrix	Abbrevision of communications management plan that includes: · identified team members and stakeholders as: · Senders · Receivers	Managing Project Communications: Communications Matrix
Ø	Authorizing person (confidential information) Staleholder communication requirements: Type of information Reason for communication Language, format, content and level of detail Time frame and frequency Whether receipt advonveledgment or response is required Processes/guidance/implicates for escalation Project information - Communications methods/lachnologies to use	This is a shorter form of a communications management plan.
<u>ड</u>	GDIST from Minagement Halleds. In . 64 rights inferred. The reasons a long promised as part of a TMM reason.	Format can be a spreadsheet, whiteboard, other
		Contents:





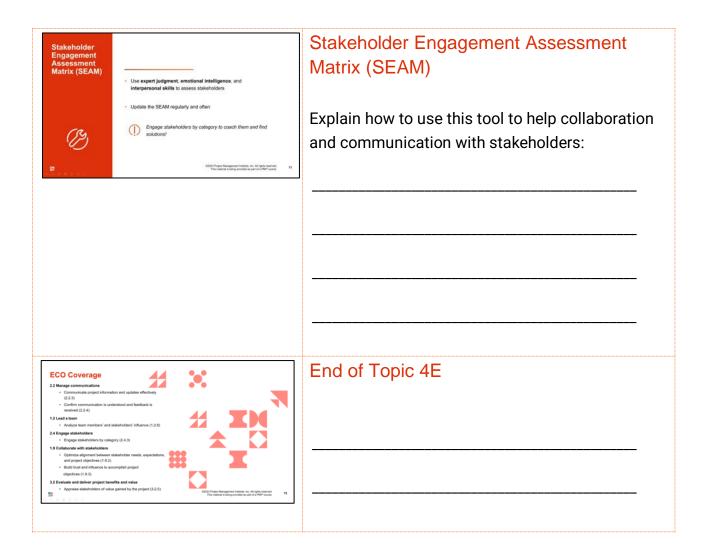


How to	How to Collaborate
Collaborate - Optimize understanding of aims and expectations through open dialogue and meaningful communication - Engage continuously - Accept that engagement levels may fluctuate - Keep discussions transparent - Ensure stakeholders are knowledgeable and expectations are set - Leverage communication and interpersional skills, feedback and meeting management - Maximize the feedback loop – gain meaningful insights - Use effective tools – e.g., shared whiteboards	Guidelines for collaboration
Use Information Radiators Keep Information Visible Information radiators Kanban boards They can be electronic or physical, or both, open communication and	Use Information Radiators: Keep Information Visible
White boards Wikis Fishboel windows Secondary benefit is accountability Fishboel windows Was provided to provide conversation and collectorative when the collectorative when the collectorative wind the workspace. Covered the designative winds the first the conversation and collectorative when the collectorative wind the workspace. Covered the designative winds the first the covered that th	Formats and benefits for collaboration.
Watch a video and gain further information on information radiators in Lesson 5!	



Collaboration Activities Daily stand-up meetings Colicated of face-to-face working Schoduled sessions—e.g., milestone reviews, backlog refinement sessions, project update meetings Pairing or coaching, as in knowledge transfer Negotiations Negotiations Still Their transport within in. If of the stands for the stands of th	Collaboration Activities
Communicate and Collaborate to Negotiate Think of negotiations as conversations with internal and external parties toward reaching agreements. Use effective communication methods to ensure collaboration with the other party is aimed all reaching consensus. Keep negotiations positive to increase the likelihood of success.	Communicate and Collaborate to Negotiate
Everyona's time is valuable. Run and participate on meetings efficiently. Be organized Private a clear agenda with purpose and dispired outcomes. Timebox discussions. Practice active listening and feedback. Facilitate collaboration.	Meetings







TOPIC 4F | TRAINING, COACHING, AND MENTORING

ECO Coverage

1.6 Build a team

Appraise stakeholder skills (1.6.1)

1.5 Ensure team members/stakeholders are adequately trained

- Determine required competencies and elements of training (1.5.1)
- Determine training options on training needs (1.5.2)
- Allocate resources for training (1.5.3)
- Measure training outcomes (1.5.4)

1.13 Mentor relevant stakeholders

- Allocate the time for coaching mentoring (stakeholders) (1.13.1)
- Recognize and act on coaching mentoring opportunities (1.13.2)



Topic 4F: Training, Coaching and Mentoring

Let's move from collaboration to training with team members and stakeholders. This is a different leadership topic, but still within the realm of "working together."



Agile coach / scrum master role
Training, Coaching and Mentoring: Descriptions
Descriptions and uses of each
_



How to Acquire Required Competencies Discover current skill sets and competencies Identify what's desired Take action! Meet urique needs — e.g., topics, depth, schedule, format Couch on the pustomer's business, culture, desired outcomes, and project contact Encourage mentorships Uther and expetite the SEAM to facilitate asser collaboration.	How to Acquire Required Competencies
Plan for Training, Coaching and Mentoring - Perform a gap analysis to identify required knowledge, skills, or attributes Plan for a suitable diversity of training and coaching offerings Soft skills - Technical skills - Peart of team-building or funding of funding and coaching offerings Soft skills - Peart of team-building or funding or fund	Plan for Training, Coaching and Mentoring Describe a well-rounded plan for training, coaching and mentoring:

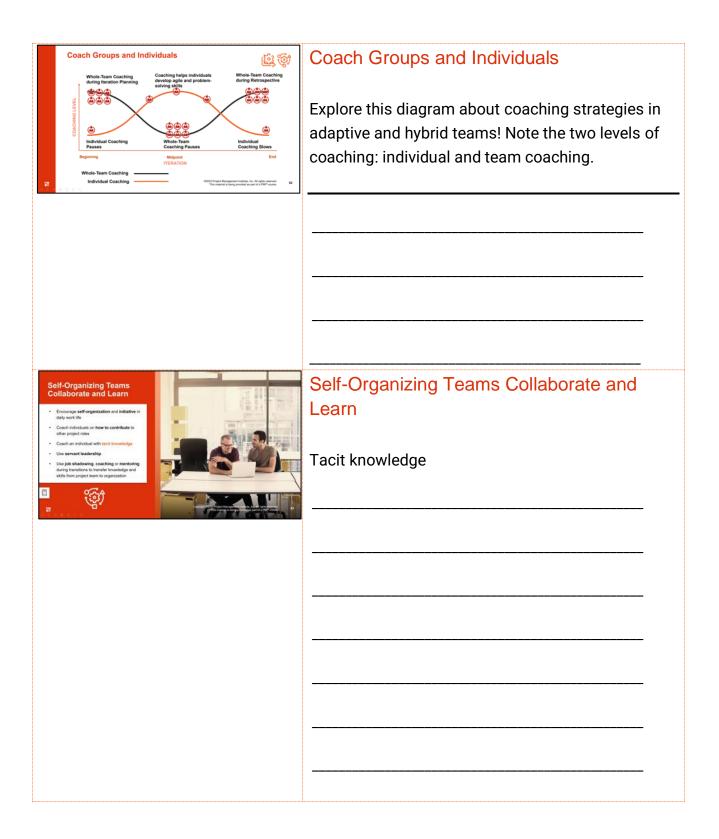


Know the Value of Training, Coaching and Mentoring Treat knowledge as an asset	Know the Value of Training, Coaching and Mentoring
Conduct a cost-benefit analysis to determine the potential value in cost savings — e.g., replacing outsourced labor Help others or yourself to improve skills and knowledge Increase the team's ability to increase quality, output, and value Build relationships and trust with stakeholders and team members	Treat knowledge as an asset!
Training, Coaching and	Training, Coaching and Mentoring Discussion
Mentoring Discussion Have you ever had a valuable trainer, coach or mentor? Description but you ever affective. Would people think YOU are a valuable trainer, coach or mentor? Why?	 Have you ever had a valuable trainer, coach, or mentor? Describe why they were effective. Would people think you are a valuable trainer, coach, or mentor? Why?



Elements of Training Provided to learns, small groups or individuals Covers management, technical or administrative topics Delivery models Notical diseasoon Self paped et earning Document revises in treated with withouts On-the-job training	Elements of Training Tailor training options to the team:
Coach Teams and Individuals in Project Management Acknowledge informat opportunities that may already be happening: Delegate tasks, observe and provide feedback Cocletoration on project management task Introduce format opportunities: Facilitate meetings and sessions Transfer skills by pairing individuals Model behaviors Acknowledge informat opportunities: Colletoration on a project management task Introduce format opportunities: Facilitate meetings and sessions Transfer skills by pairing individuals Model behaviors Acknowledge informat opportunities: Facilitate meetings and sessions Transfer skills by pairing individuals Model behaviors	Coach Teams and Individuals in Project Management Explain the value of sharing project management with others. Which types of knowledge should be shared?











TOPIC 4G | MANAGE CONFLICT

ECO Coverage

- 1.1 Manage conflict
 - Interpret the source and stage of the conflict (1.1.1)
 - Analyze the context for the conflict (1.1.2)
 - Evaluate/recommend/reconcile the appropriate conflict resolution solution (1.1.3)
- 1.12 Define team ground rules
 - Discuss and rectify ground rule violations (1.12.3)
- 1.10 Build shared understanding
 - Investigate potential misunderstandings (1.10.4)
 - Break down situations to identify the root cause of a misunderstanding (1.10.1)



Topic 4G: Manage Conflict

An extremely important part of project leadership is maintaining a peaceful, productive working environment in which conflict is managed. In this section, we learn how to deal with conflicts, so that when they arise or escalate, you can attend to them.



Why Conflict Management Matters	Why Conflict Management Matters
Ineffective conflict management leads to: Destructive behavior Animosity Better performance	Ineffective conflict management leads to:
Poor performance Reduced productivity	
GD22 They for Management values in the of your services. The form services is the form services the first services of the form	
	Effective conflict management leads to:
Conflict Management Roles	Conflict Management: Roles
All team members and stakeholders are responsible for managing conflict Project managers influence the direction and handling of conflict through interpersonal skills and servant leadership	Is conflict management different in predictive and adaptive teams? How so? Who does what?
The team is empowered to resolve conflicts; the team lead can facilitate resolution.	adaptive teams: now so: who does what:
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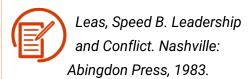








Use Leas' Levels of Conflict



- Level 1 Problem to solve: Differences are identified, then shared and discussed among members. This level is a problem or taskoriented conflict, not a person or relationshiporiented conflict.
- Level 2 Disagreement: Personalities and issues mix; therefore, problems cannot be identified. At this stage, people begin to distrust one another and make problems personal.
- Level 3 Contest: Win/lose dynamic emerges, followed by taking sides, distorted communication, personal attacks. Conflict objectives shift from focus on self-protection to winning the argument. People feel threatened or invigorated and ready to fight.
- Level 4 Fight/Flight: Conflict participants may shift from winning to now trying to hurt or get rid of their opponents. Intervention is required.
- Level 5 Intractable situation/War: People are now incapable of having a clear understanding of issues. Efforts to destroy others' reputation, positions, or well-being are common. This eventually ruins the relationship.



Use Interperson	al Skills to Manage Conflict	Use Interpersonal Skills to Manage Conflict
Emotional Intelligence Influencing Leadership Decision-Making Active Listening	Use empathy to understand and diffuse situations Persuade parties to reconsider or change their tone, approach, or mindset Steer others in a more positive direction Offer a solution to move the situation forward Listen for personalized, accusing language and bitter or caustic tone, defensive or aggressive physical postures The America George product april a Tella Facility States 18	
Emotional Intelligence		
Influencing		
Leadership		
Decision- Making		
Active Listening		

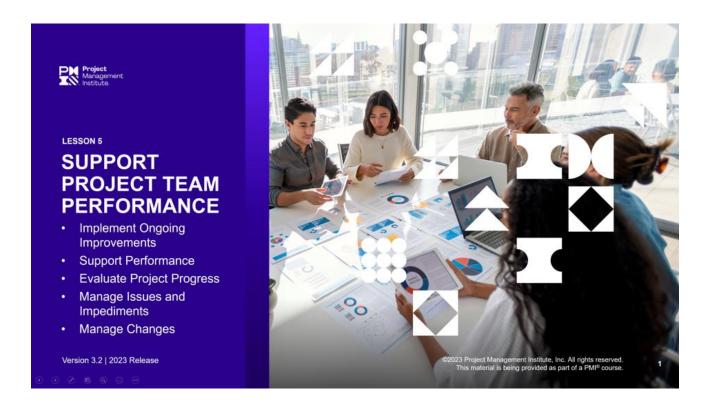


¥**	Conflict Management Approac Smooth Accemmodas Withdraw Avid Comprenias Reconois Forca/Direct Collaboratio Problem Solve Reduct Course of the Collaboratio Forca/Direct Collaboratio Problem Solve Reduct Course of the Collaboratio Forca Chart	ment ain harmony and relationships oints oints except dislogue to reach consensus and the expense of others is the side and insights from varying perspectives	Conflict Management Approaches
	mooth/		
A	ccommodate		
W	/ithdraw/		
A	void		
С	ompromise/		
	econcile		
F	orce/		
D	irect		
С	ollaborate/		
P	roblem Solve		



1. Manage conflict Integrate the source and stage of the conflict (1.1.1) Analyse the content for the conflict (1.1.2) Equitable incommendateworks the sprengrate conflict resultation evalution (1.1.3) 1.12 Define train ground rules Discuss and receify ground rule violations (1.1.2.3) 1.18 Define train ground rules Discuss and receify ground rule violations (1.1.2.3) 1.19 Build share understanding Investigate potential immunderstandings (1.10.4) Break down students and students to identify the root cause of a misunderstanding (1.10.1)	End of Topic 4G
End of Lesson 4 End with the second and the second	End of Lesson 4





Lesson 5: Support Project Team Performance

Description

This lesson explores concepts and tasks related to ensuring the team is doing its best work and stays on track to achieving successful project outcomes.

We explore both the "People" and "Process" domains of the ECO in this lesson.



Learning Objectives

- Explain the various methods for implementing improvement.
- · Explain the various methods for performance measurement.
- · Compare these methods with a focus on communication and accountability.
- Identify the methods for implementing a project and the issues and impediments that arise during a project.
- · Describe the methods for implementing changes during a project.

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2

Topics

- A. Implement ongoing improvements
- B. Support performance
- C. Evaluate project progress
- D. Manage project issues and impediments
- E. Manage project changes



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Lesson Notes

TOPIC 5A | IMPLEMENT ONGOING IMPROVEMENTS

Topics Covered

Continuous Improvement (CI)

- Plan continuous improvement methods, procedures, and tools
- Assess CI framework
- Plan CI methods, procedures, tools
- Recommend/Execute CI steps

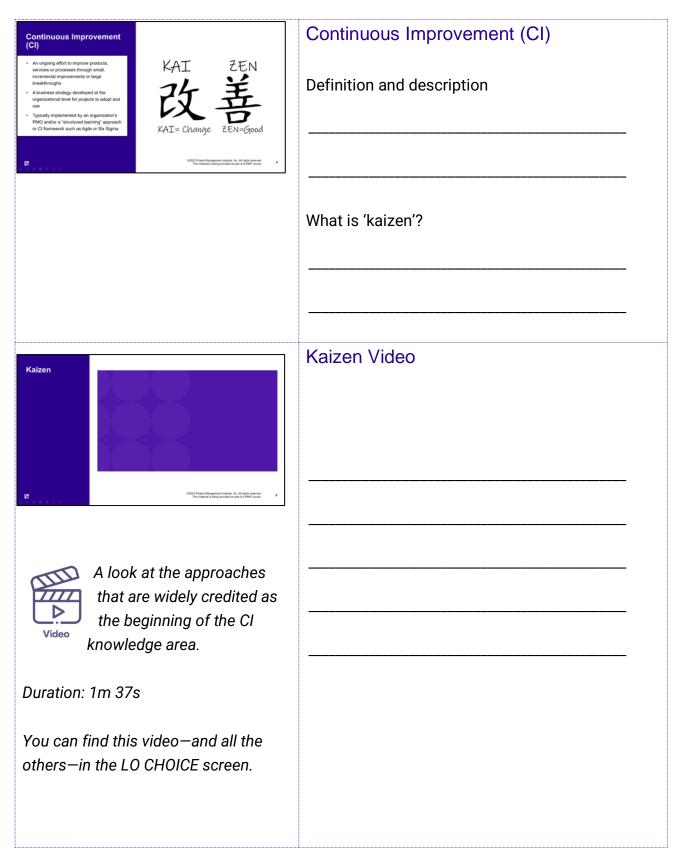


Continuous improvement is a foundation of agile practices and best/good practices in organizations. Even though CI does not appear on the ECO, it is an essential part of the project manager role.

Topic 5A: Implement Ongoing Improvements

This lesson addresses the importance of continuous improvement (CI) methods to project practitioners and organizations.

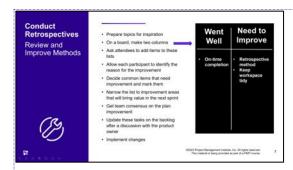






Assess Current CI Methods How well are the feam and organization equipped for CI7	Is the lessons learned register up to date? Is the team having regular retrospectives? Are team members Lean Six Sigma or certified in an agile memberd? Do they know about Kaizen, Lean, Crystal Methods or Capability Maturity Model integration (CMMI)? Also check the process improvement plan and the project management plan! Use the risk register to assess current CI measures. It includes how the fearn is prepared to act to address threats to project qualify, so it can be a neighful way of assessing current CI measures.	Assess Current CI Methods
號 ○ ○ 2 7 5 0 0	00000 Project Management Institute, Inc. All rights reserved. This material is lesing provided as part at a PMP coases.	
		Lean Six Sigma
		Others?





Conduct Retrospectives: Review and Improve Methods

How to conduct a retrospective:

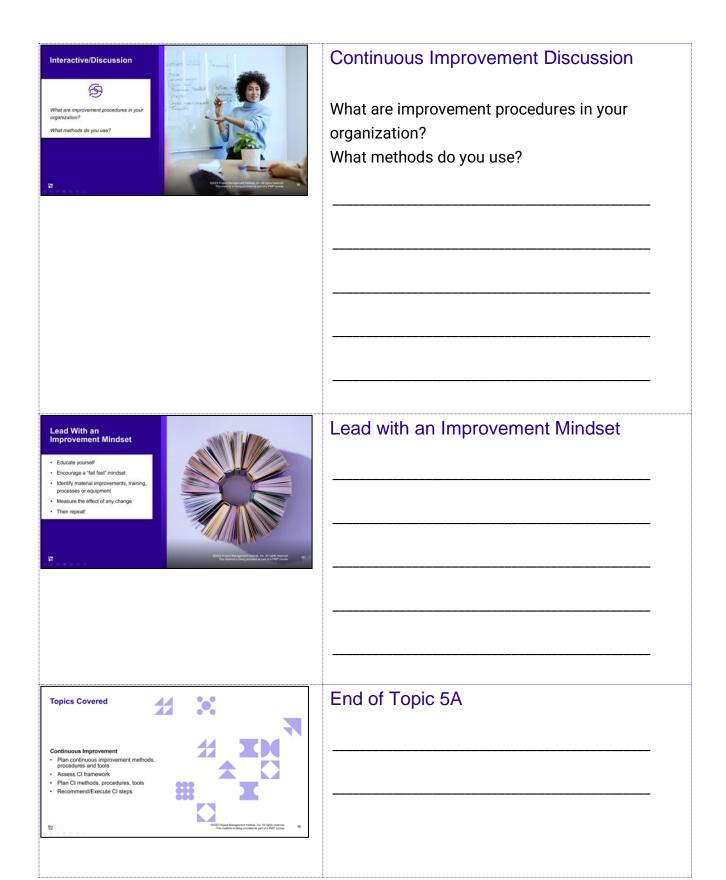
- Prepare topics for inspiration
- On a board, make two columns: "What Went Well" and "What Could Be Improved"
- Ask attendees to add items to these lists
- Allow each participant to identify the reason for the improvement
- Decide common items that need improvement and mark them
- Narrow the list to those improvement areas that will bring value in the next sprint
- Get team consensus on the plan improvement
- Update these tasks on the backlog after a discussion with the product owner
- Implement changes

What co	uld yo	u be d	oing b	etter?	



Improve Your Improvement Methods	In addition to using the lessons learned register and retrospectives	Improve Your Improvement Methods
	Experiments - Use AB testing and team feedback to identify improvements - Experiments provide a way to improve team efficiency and effectiveness - Apply controls — do them one at a time — to isolate the results - Pareto chart, or the 80/20 rule - Directs efforts where they can make the biggest impact - Takes a big problem and breaks it down into smaller prices - Control of the Control o	A/B testing
		Pareto chart
		80/20 rule
Update Processes and Standards	Use what you learned from successful experimentation to fashion and recommend CI steps Can lessons learned at the project level apply to the organization's continuous improvement process? If so, scalable these lessons as an opportunity for adoption at the organizational level CODIT Project Management Institut, Nr. At 1 (yet) reversed. The remord is large general as a ref or \$160* mores.	Update Processes and Standards
Project Manage	ment	304 Version 3.2

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TOPIC 5B | SUPPORT PERFORMANCE

ECO Coverage

- 2.2 Manage communications
 - Communicate project information and updates effectively (2.2.3)
 - Confirm communication is understood and feedback is received (2.2.4)
- 1.4 Empower team members and stakeholders
 - Support team task accountability (1.4.2)
 - Evaluate demonstration of task accountability (1.4.3)
- 1.6 Build a team
 - Continuously assess and refresh team skills to meet project needs (1.6.3)
 - Maintain team and knowledge transfer (1.6.4)
- 2.11 Manage project artifacts
 - Continually assess the effectiveness of the management of the project artifacts (2.12.3)
- 2.13 Determine appropriate project methodology/methods and practices
 - Use iterative, incremental practices throughout the project life cycle (e.g., lessons learned, key stakeholder engagement, risk) (2.13.4)



Topic 5B: Support Performance

Supported teams perform better and are motivated to do their best work.

This lesson explores good practices for ensuring team cohesion during execution of project work.

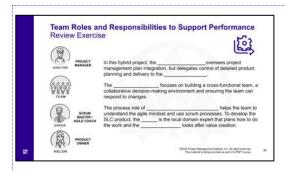


Project Team Leadership Objectives	Communicate (and re-communicate) the project's objectives Ensure fluid knowledge-sharing, a continued healthy dynamic on the team, welcome new team members, realign the team. Focus the team on delivering value 6000 hours former to the law to a light amount of the delivering value to the law to a light amount of the delivering value to the law to a light amount of the delivering value to the law to a light amount of the delivering value to the law to a light amount of the l	Project Team Leadership Objectives
Manage with Objectives, Tolerances, Thresholds	Use clear and effective communication with clear objectives throughout the life cycle for a more productive and driven team. Know the thresholds and tolerance levels that enable you to effectively manage a variation without needing to escalate. PROBLEM PROBLEM 1002 Proper Management String problem is a first of PMP agency. 11 The Management String problem is a first of PMP agency. 12 The Management String problem is a first of PMP agency. 13 The Management String problem is a first of PMP agency.	Manage with Objectives, Tolerances, Thresholds



The Project Manager's Role: Centralized The Project Manager's Role Centralized Model Model Provides a project management plan **Predictive** These tasks cannot be delegated. Ensures alignment of due dates — project deliverables, project life cycle and benefits realization plan Provides a project management plan Ensures creation and use of appropriate knowledge to/from the project Manages project performance and changes to project activities Makes integrated decisions about key changes that impact the project Measures and monitors progress, and takes appropriate action Collects, analyzes, and communicates project information to relevant stakeholders Ensures completion of all project work and formally closes each phase, contract, and the project as a whole Manages phase transitions when necessary







Fill in the blanks using the role labels at left.

ANG FEN	PROJECT MANAGER
TEAM	TEAM
GREER	SCRUM MASTER/ AGILE COACH
HELEN	PRODUCT OWNER

Teams Roles and Responsibilities to Support Performance: Review Exercise

In this hybrid project, the
oversees project management plan integration, but
delegates control of detailed product planning
and delivery to the
The focuses on building a cross-
functional team, a collaborative decision-making
environment and ensuring the team can respond
to changes.
The process role of helps the
team to understand the agile mindset and use
scrum processes.
To develop the SLC product, the is
the local domain expert that plans how to do the work
and the looks after value creation.
Answers are on the next page.

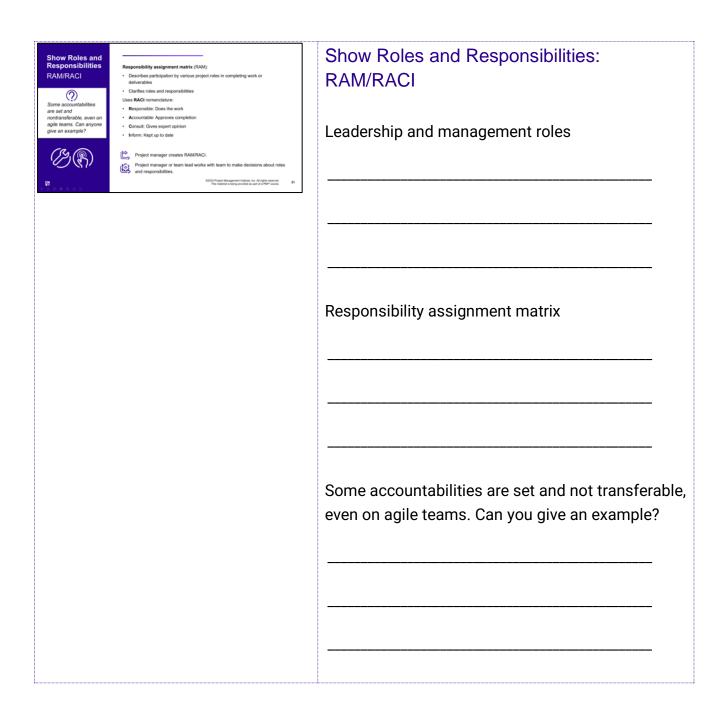


Optimize Communication	Use retrospectives purposefully — discuss how to improve ways of working Communicate in both group and face-to-face settings — especially important for remote or virtual teams Make communication positive and regular with internal and external team members and stakeholders Use technology and tools; get feedback about them and tailor for optimization Where did the team record expectations about communication? Where did the team record expectations about communication?	Optimize Communication
Answers to	quiz	In this hybrid project, the <u>project manager</u>
		oversees project management plan integration, but
		delegates control of detailed product planning
		and delivery to the <u>team</u> .
		The project manager/agile coach / scrum
		master focuses on building a cross-functional
		team, a collaborative decision-making environment
		and ensuring the team can respond to changes.
		The process role of <u>agile coach / scrum master</u>
		helps the team to understand the agile mindset
		and use scrum processes.
		To develop the SLC product, the <u>team</u> is the local
		domain expert that plans how to do the work and the
		<u>product owner</u> looks after value creation.

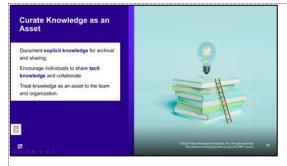


Use Feedback to Support High Use Feedback to Support High Performance Performance · Feedback is crucial for any team, using · Communicate in detail about technical Use appropriate methods — e.g., public or private, individual or group, written or · Give feedback in a timely manner Request feedback regularly, as and when needed Support Team Task Accountability Support Team Task Accountability · What work needs to be done How to perform the work Who should perform it Agile teams commit to performing work listed on a backlog during an iteration.









Curate Knowledge as an Asset	
Explicit knowledge	
Tacit knowledge	
Additional notes:	





Incorporate Knowledge Transfer	
Community of practice (COP)	
Work shadowing	
Additional notes:	

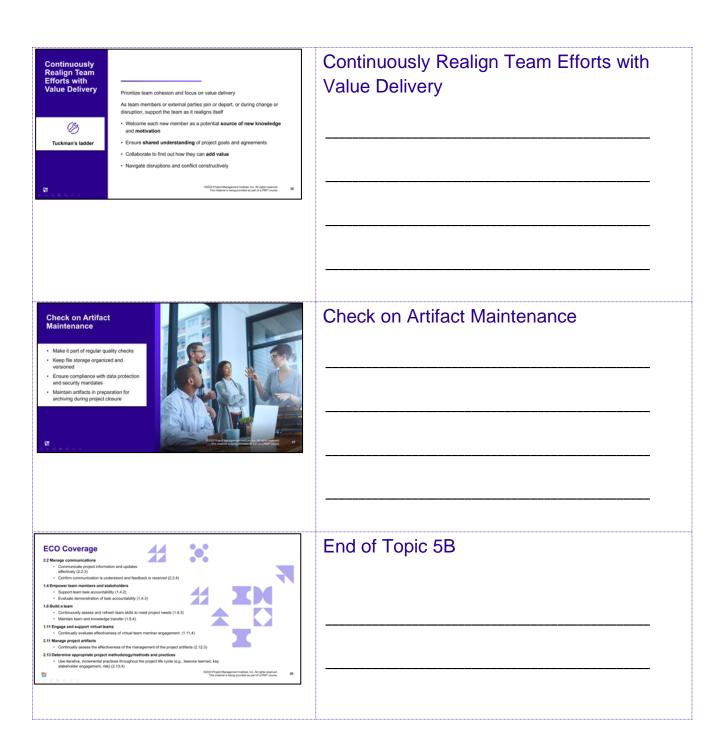


Knowledge Management Three Levels	know to perform project work? Project What's required to Transfer know	ted knowledge through research and with other team members ledge from other projects and spect management office (PMO) lige from other programs/portfolios Gross Programs/portfolios Gross Programs/portfolios 38 Gross Programs/portfolios	Knowledge Management: Three Levels
Individual What do to members know to possible project we Project What's re achieve project go Organizat What's re manage portfolios	ream need to perform ork? quired to pals? tion quired to programs or		
Learn the Right Way to Motivate Your Team	Inspire and motivate yourself and the team – provide opportunities, not obligations Give virtual teams constant and regular contact Provide appropriate training opportunities Try self-assessment and reflective moments for professional growth	Overwhelm with meetings and work interruptions Distract with non-project work Force group activities Distract with non-project work Force group activities 35 Name Response testich in A Sign words The second dates promote to per of A PAP Code. 38 Name Response testich in A Sign words The second dates promote to per of A PAP Code. 38 Name Response testich in A Sign words The second dates promote to per of A PAP Code. 38 Name Response testich in A Sign words The second dates promote to per of A PAP Code. 38 Name Response testich in A Sign words The second dates promote to per of A PAP Code. 38 Name Response testich in A Sign words The second dates promote to per of A PAP Code. 38 Name Response testich in A Sign words The second dates per of A PAP Code. The second dates per of A PAP Code. The second dates per of A PAP Code. The second dates per of A PAP Code.	Learn the Right Way to Motivate Your Team



DO:	DON'T:	







TOPIC 5C | EVALUATE PROJECT PROGRESS **ECO Coverage**

- 2.8 Plan and manage scope
 - Monitor and validate scope (2.8.3)
- 2.6 Plan and manage schedule
 - Measure ongoing progress based on methodology (2.6.4)
 - Modify schedule, as needed, based on methodology (2.6.5)
 - Coordinate with other projects and other operations (2.6.6)
- 2.5 Plan and manage budget and resources
 - Monitor budget variations and work with governance process to adjust as necessary (2.5.3)
- 2.1 Execute project with the urgency required to deliver business value
 - Examine the business value throughout the project (2.1.2)
- 2.7 Plan and manage quality of products/deliverables
 - Continually survey project deliverable quality (2.7.3)
 - Recommend options for improvement based on quality gaps (2.7.2)



Topic 5C: Evaluate Project Progress

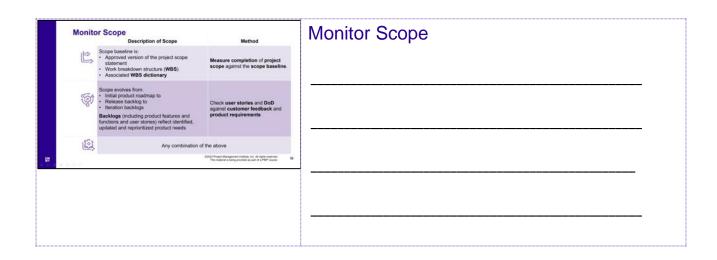
In this topic, we'll learn how to measure project progress and set it up for success.



Guidelines to Measuring Performance	Tailor performance measurement to the project content and stakeholders: Stope Percentage of sent completed Change requests	Guidelines to Measuring Performance
"Only Measure What Matters" - John Doerr	Schedule Actual duration of each against projected start and frish dates Budget Actual costs Check procurements are sufficient for needs Resources Team allocations/availability/procurement Performance approximal—here, including wenders Context management	Scope
	Coality Tachnical performance Defects Defects Risk Risk GDD hape the opened notice, in All spin served. The served is required in a part of a Performance. 2007 hape the opened notice, in All spin served. The served is length apart of a Performance. 2007 hape the opened notice, in All spin served.	
		Schedule
		Budget
		Resources
		Quality
		Risk

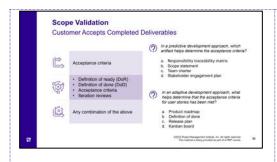


Report on Performance Tailor If Required	Milestone schedule Quality reports Earned value management (EVM) reports Variance analysis reports Work performance reports Dashboards	High-level visualization of progress on work against planned dates Charts and reports based on the quality metrics collected Graphs and values based on EVM equations Graphs and values based on EVM equations Graphs and their analysis comparing actual results to expected results. Physical or electronic representation of work performance information compiled in project documents, intended to generate decisions, actions, or awareness. Physical or electronic progress summaries, usually with visualis or graphics to represent the larger data set. (ISS) Physical results or graphics to represent the larger data set. (ISS) Physical results are set of 4 MM same.	Report on Performance: Tailor if Required
Mileston	e schedule		
	alue manag	ement	
Variance	analysis re	ports	
Work per	formance d	lashboards	





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Scope Validation: Customer Accepts Completed Deliverables

	How does the customer accept the deliverables in each type of life cycle?
(G)	
ि	



Now let's check that you learned!

Answers are on the next page.

- In a predictive development approach, which artifact helps determine the acceptance criteria?
 - a. Responsibility traceability matrix
 - b. Scope statement
 - c. Team charter
 - d. Stakeholder engagement plan



	 2. In an adaptive development approach, what helps determine that the acceptance criteria for user stories have been met? a. Product roadmap b. Definition of done c. Release plan d. Kanban board
Measure Schedule Performance Methods Gantt charts: Schedule performance tracking over time Earned value: Cost and effort performance tracking against planned value (Ptv) Quality metrics: Track quality deliverables, defects and acceptable output Variance analysis: Shows where the project is against where it should be - Compare work delivered and accepted to estimations for the current iteration/sprint - Review completed work in regular sprint derina - Determine productor, validation, and acceptance railes for deliverables in retrospectives - Conduct scheduled reviews to record retrospective discoveries	Measure Schedule Performance
	Earned value (EV)
	Quality metric
	Variance analysis



Answers to scope validation quiz	B. Scope statement B. Definition of done
Schedule Management Tools - Adjust schedule to reflect resource supply/demand - Use smoothing and leveling - Use schedule compression ischniques, including fast tracking and crashing	Schedule Management Tools List and describe some schedule management tools used in predictive approaches:
Visualize Performance Display visuals or graphics on team dashboards (electronic or physical) Show committed versus completed work Display project data and progress on puradown and burnup charts Display project data and progress on graphic information radiators in prominent places Measure performance with lead and cycle times with a cumulative flow diagram Agile approaches may use kanban or task boards to visualize project work Continuous flow approaches include throughput, cycle time and lead time Timeboxed approaches include velocity GROWD Progra Mongame charter, but Ar often worred the flowards flow promoter as part of Affirmance. 18	Visualize Performance Explain how we show committed versus completed work:









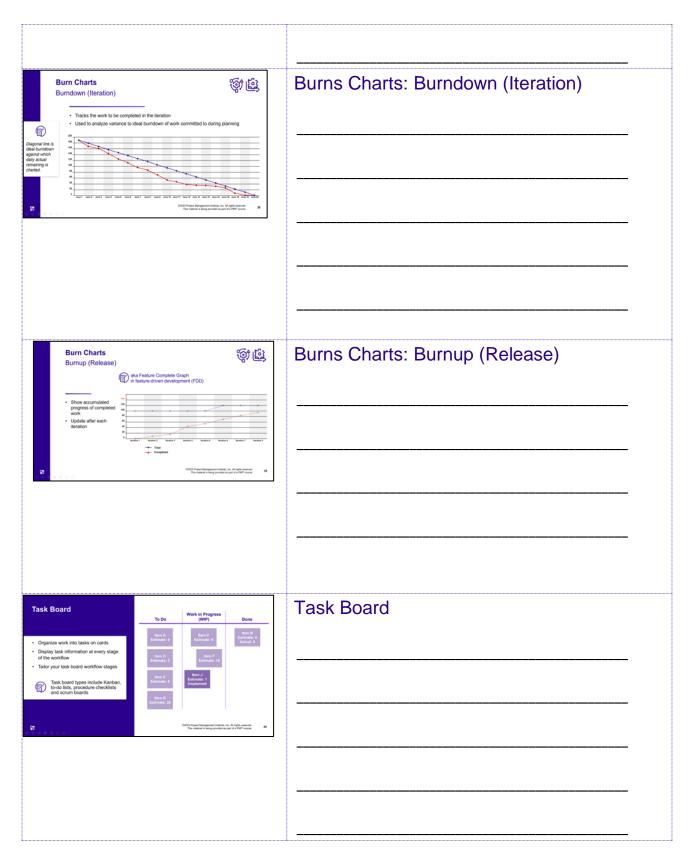
Duration 2m 34s

We already learned about how to use information radiators to create transparency and collaborative spaces and environments. This video show how to use information radiators to monitor, communicate, and be able to act on project progress and work.

Information Radiators Video

hey provide.				
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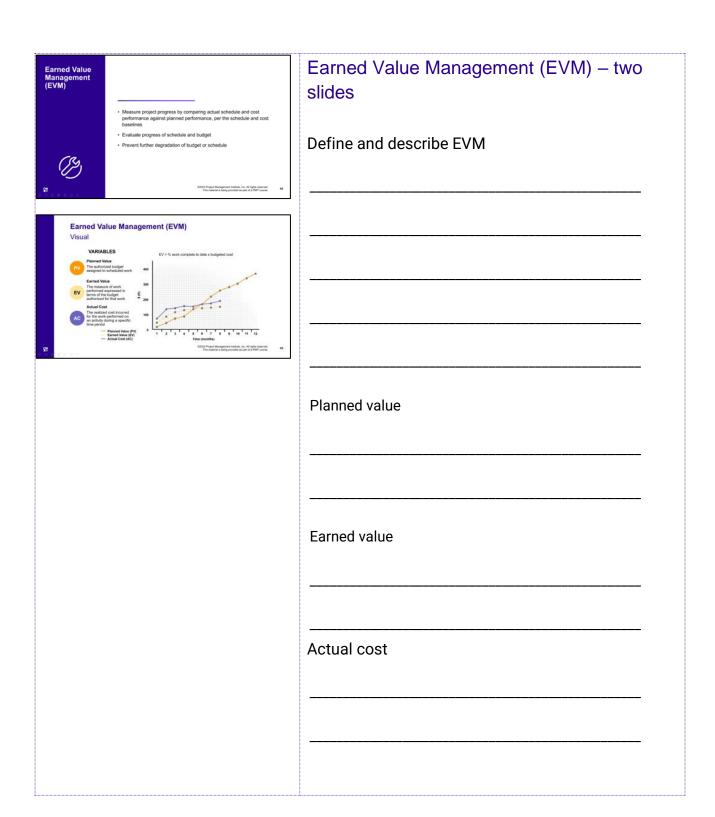


Estimate Velocity Aim for Constant Rate (with optional discussion) - Team's estimated rate of progress of completed work - Coolade by estimating number of story points that can be completed during an iteration - Then mostly during subsequent fearations - Then mostly during subsequent fearations - Then mostly during subsequent fearations - Workly is a unique metric to a project. - If can't be used fix compare the performance of fearat.	Estimate Velocity: Aim for Constant Rate
Continuous Flow Approaches Measure Throughput, Lead and Cycle Time • WiPMeasure of work in progress but not completed • Lead time - Length of time work item goes through entire process • Cycle time - Length of time work item is being worked on • Throughput - Namber of items entering or exiting the system	Continuous Flow Approaches: Measure Throughput, Lead and Cycle Time



Budget Challenges Newrichanged project requirements New risks, or changes to the probabilities or impacts of ensisting risks Changes to cost estimates Changes to cost estimates	Budget Challenges





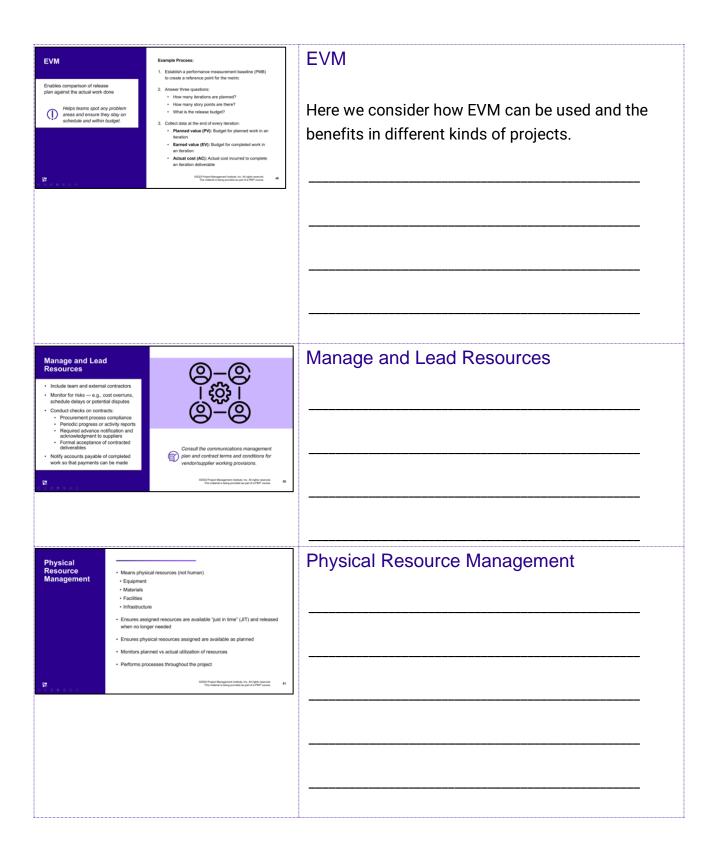


EVM Measures for Schedule Control	EVM Measures for Schedule Control
Is the project progressing on schedule? Schedule variance measures performance – by calculating the difference between EV and PV SPI = EV / PV	Make note of definitions and formulas!
SV = EV - PV project BEHND project ANEAD of schedule SV value = 0 project on schedule SV value = 0 project on schedule SPI value = 1.0 project on schedule	Schedule variance - Is the project progressing on schedule?
The detries stong provided as part of a TMT maries.	
	Schedule performance index - How efficiently is the team working?
EVM Measures for Cost Control	EVM Measures for Cost Control
Is the project on budget? Calculate cost variance (CV) to find the current amount of budget deficitiourplus CV = EV - AC How efficient is my project? Calculate cost performance index (CPI) to measure the cost efficiency of budgeted resources (CPI = EV / AC)	Make note of definitions and formulas!
project OVER project UNDER project OVER project UNDER budget CV value = 0	Cost variance - Is the project on budget?
SSSS Player Unsupposed Indian In an Adapta servered. This ended is long provided as part of a PRPP service. 47	

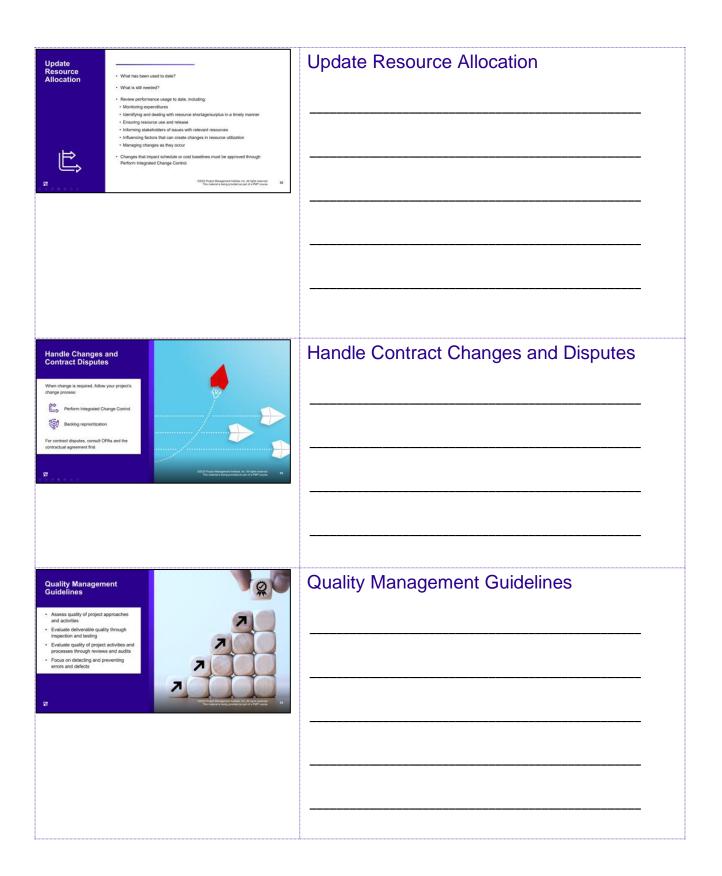


	Cost performance index - How efficient is my project?
What will the project cost in total? What will the project cost in total? Use Estimate At Completion (EAC) Based on: BAC: budget at completion Formula EAC = BAC CPI ETC = EAC - AC Statistic properties are in the project of the project? Use Estimate To Complete (ETC) Based on: CPI: current spending efficiency - BAC: budget at completion Formula EAC = BAC CPI ETC = EAC - AC	EAC/ETC Analysis EAC – Estimate at completion ETC – Estimate to complete • Are more funds required • What will the project cost in total? • How much more is required to complete the planned work? Make note of definitions and formulas!





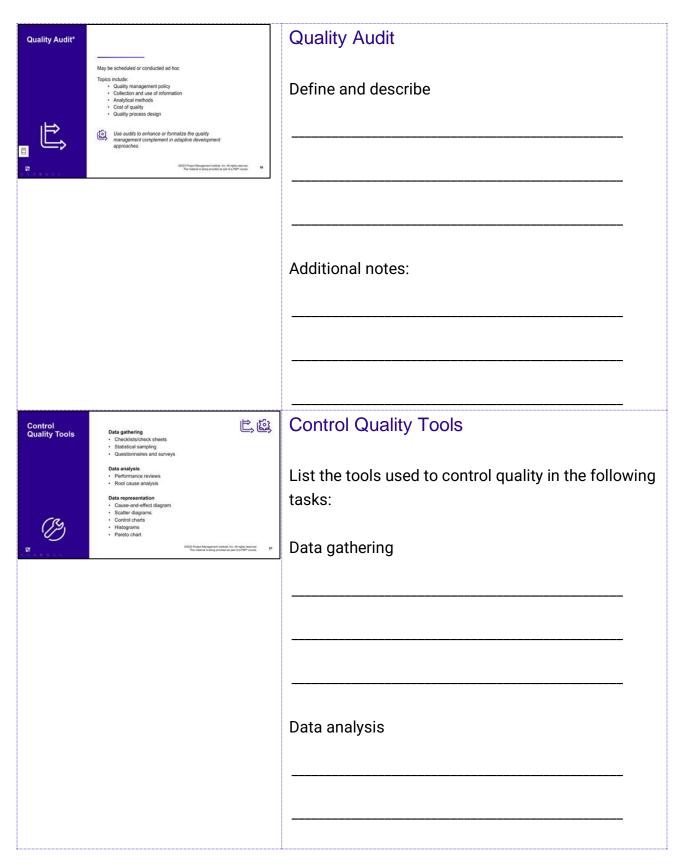






Verify that delin deling and a deling and as a deling and as a deling and as a deling and as a deling and a deling and a deling and a deling and a deling a deling and a deling a	sides Control Quality process to: verables meet functional and nonfunctional requirements ggest improvements in with compliance requirements on any identified variances all approaches to use defects or other noncompliance monitors quality reports and recommendations! nd product owner are responsible for setting and meeting quality variations continuously monitor quality variations continuously monitor quality area of quality with.	Evaluate and Manage Quality	
Predictive			
Adaptive			

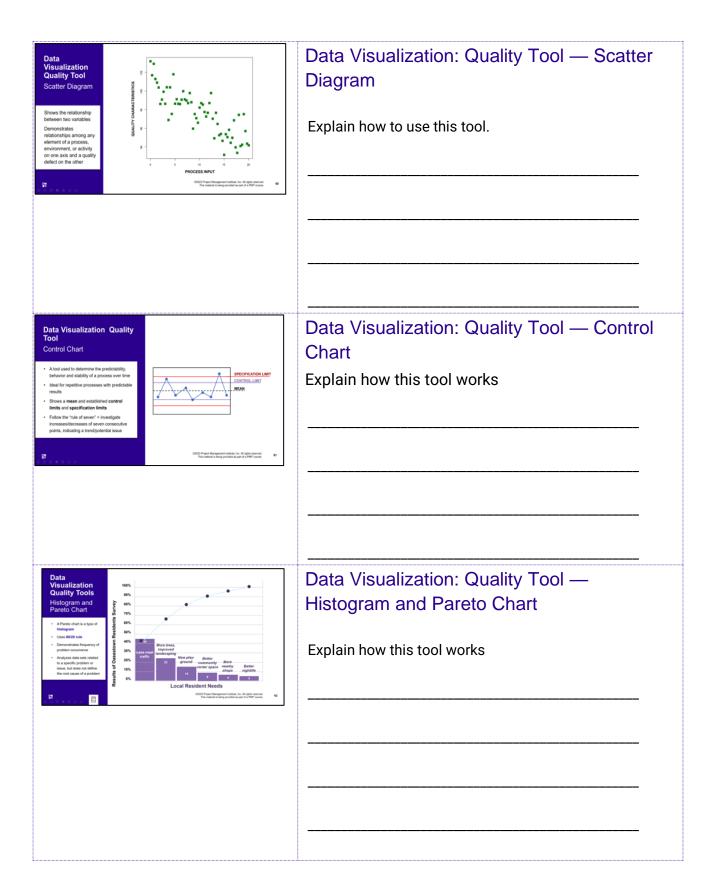




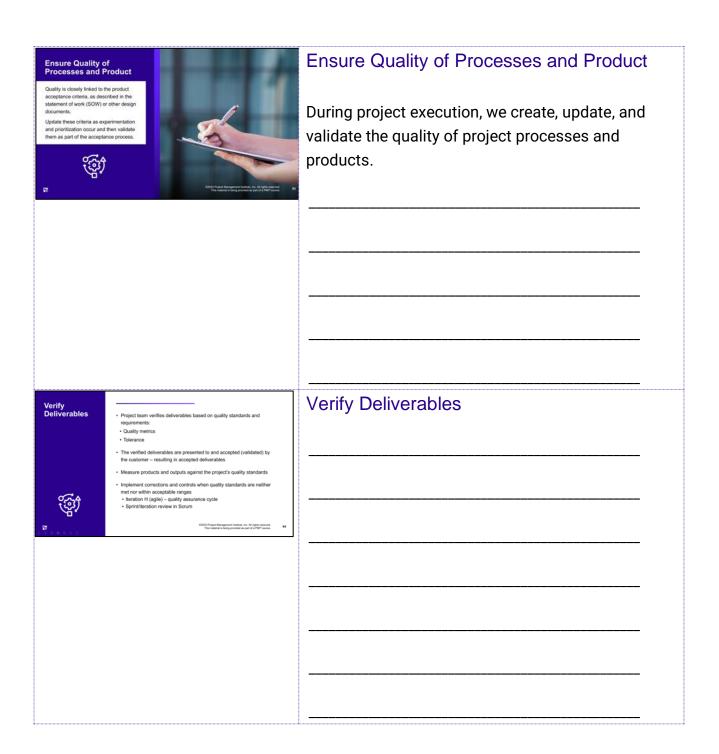


	Data representation
Control Quality Process Example 1. Use check sheets to collect data 2. Plot data on a histogram Parete chart (00070 ne) 4. Use the significant ones using the Parete chart (00070 ne) 5. Finally, perform a scalet analysis to understand the correlation	Control Quality Tools: Example
Data Visualization Quality Tool - Cause and Effect Diagram Break down the problem statement to identify causes in discrete branches Keep asking "ethy" to help identify the main or root cause of the problem Example fishbone diagram (aka Ishikawa or Why-Why) Example fishbone diagram (aka Ishikawa or Why-Why)	Data Visualization: Quality Tool—Cause and Effect Diagram What is this diagram also called?
	Explain how to use this diagram.

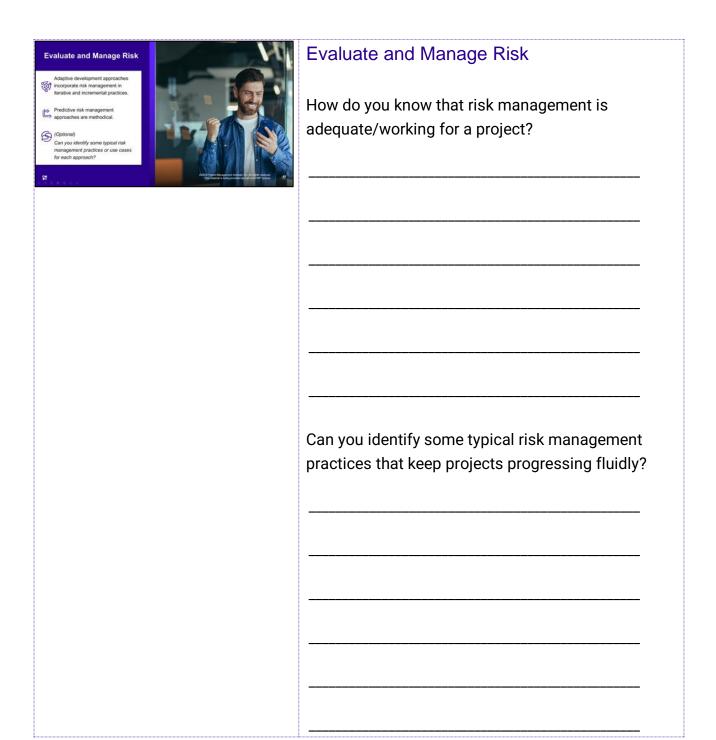














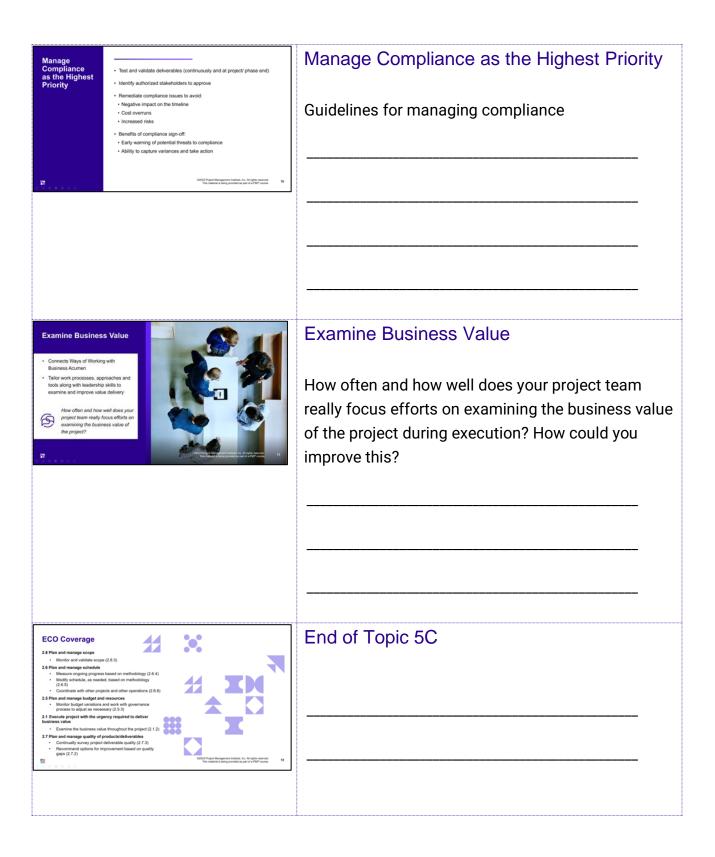
Monitor Risks	GUIDELINES • Enable decision-making based • Arriproject assumptions still	Monitor Risks	
₽ R	on current information about overal firsk exposure and individual risks - Continuously monitor status, probability and impact - Identify new risks - Rasssess current risks - Close outdated risks - Continuously improve risk effectiveness - Continuously improve risk effectiveness	Guidelines	
		Questions to ask	
Review your Reserves	Reserve analysis: - Establishes the amount of contingency and management reserves needed - Is performed throughout the project - Compares amount remaining to determine if adequate - May be communicated with a brundown chart	Review Your Reserves Reserve analysis	
	6000 Projet Response hashe, to 40 year second. The relevant is long proced as part of 4767 come.		
		Additional notes:	
Project			

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Risk Register - Add risks raised during status meetings, standage or daily scrums, literation reviews.	Risk Register
retrospectives – or even informally – to the risk register. Update newly identified and existing risks based on the current knowledge and situation. Agile beams may use a risk list or log, amains to a risk register.	Guidelines
CS The state of th	
Interactive/Discussion	Risk Management Discussion
When you think about risks in a project, which do you think are the most exercus? How do you know?	When you think about risks in a project, which do you think are the most serious? How do you know?
The Control of State	







TOPIC 5D | MANAGE PROJECT ISSUES AND IMPEDIMENTS

ECO Coverage

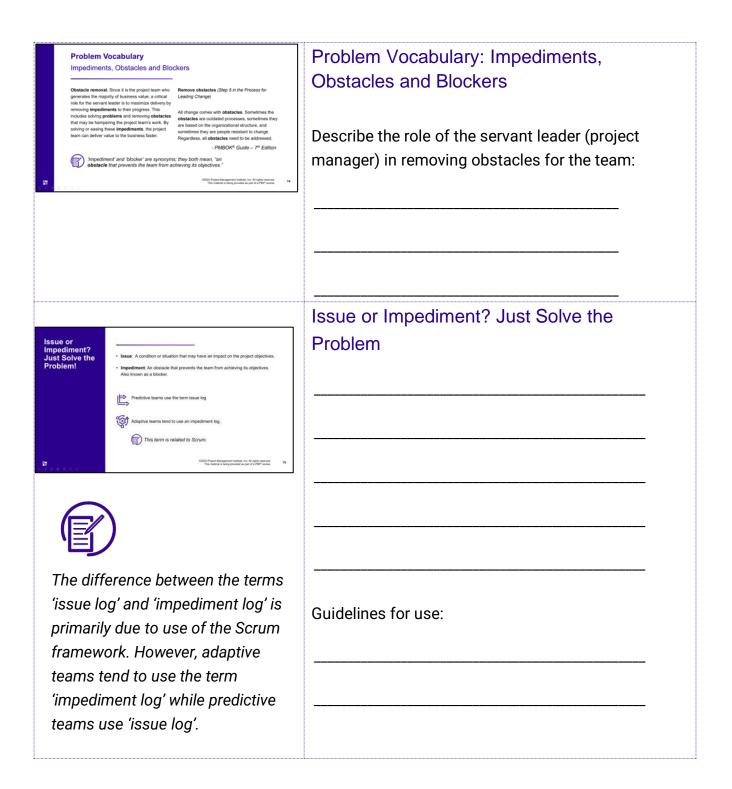
- 2.15 Manage project issues
 - Recognize when a risk becomes an issue (2.15.1)
 - Attack the issue with the optimal actions to achieve project success (2.15.2)
 - Collaborate with relevant stakeholders on the approach to resolve the issues (2.15.3)
- 1.7 Address and remove impediments, obstacles, and blockers for the team
 - Determine critical impediments, obstacles, and blockers for the team (1.7.1)
 - Prioritize critical impediments, obstacles, and blockers for the team (1.7.2)
 - Use network to implement solutions to remove impediments, obstacles, and blockers for the team (1.7.3)
 - Re-assess continually to ensure impediments, obstacles and blockers for the team are being addressed (1.7.4)



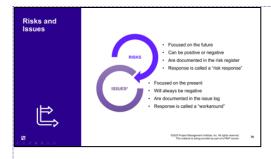
Topic 5D: Manage Project Issues and Impediments

Change is inevitable, but it is rarely insurmountable. Let's look at strategies, tools, and techniques for managing project changes!









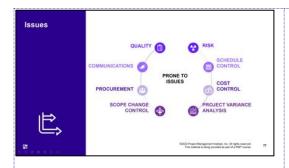
Risks and Issues

Ensure you understand the relationship between risks and issues.

- A risk is generally defined as an event that might impact a project.
- An issue is a risk that has happened and will impact the project.
- An issue can also just happen, without a known risk being present – these kinds of issues arise from unknown factors

Risks			
ssues			





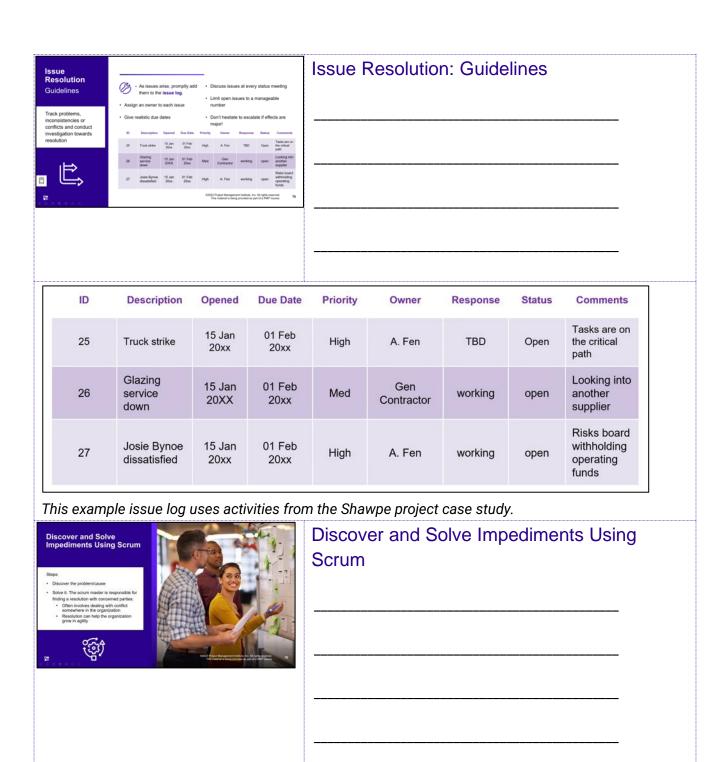
Issues

These are the areas in a project that are prone to issues:

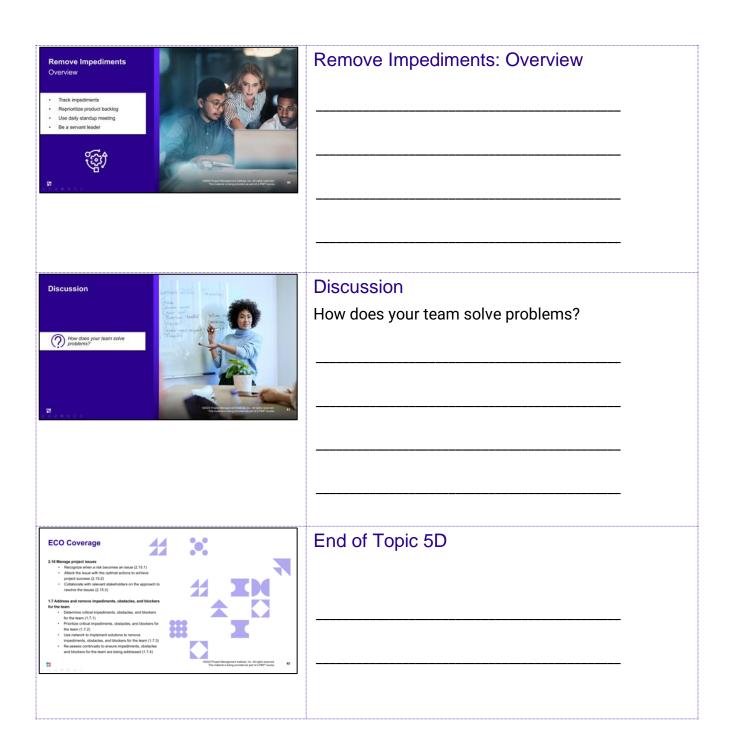
- Scope change control
- Schedule control
- Cost control
- Project variance analysis
- Quality
- Risk
- Procurement
- Communications

Can you think of some e	examples?		
		 _	
		 _	
		-	
		 _	
		 -	
		 _	











TOPIC 5E | MANAGE PROJECT CHANGES

ECO Coverage

- 3.3 Evaluate and address external business environment changes for impact on scope
 - Survey changes to external business environment (e.g., regulations, technology, geopolitical, market) (3.3.1)
 - Assess and prioritize impact on project scope/backlog based on changes in external business environment (3.3.2)
 - Recommend options for scope/backlog options (e.g., schedule, cost changes)
 (3.3.3)
 - Continually review external business environment for impacts on project scope/backlog (3.3.4)

2.10 Manage project changes

- Anticipate and embrace the need for change (e.g., follow change management practices (2.10.1)
- Execute change management strategy according to the methodology (2.10.3)
- Determine a change response to move the project forward (2.10.4)



Topic 5E: Manage Project Changes

Change is inevitable, but it is rarely insurmountable. Let's look at strategies, tools, and techniques for managing project changes!





Interactive/Discussion

Which constitutes a change in a project?
Can a change come from anywhere?
How does the life cycle and development approach affect our response to change?



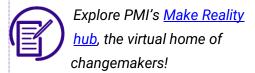
Causes of Project Changes

Typical causes for changes in predictive projects:

- · Inaccurate initial estimates
- · New regulations
- · Missed requirements
- Specification changes







Be a Changemaker and a Change Leader

- Be a diligent, respectful, and caring steward
- Recognize, evaluate, and respond to system interactions
- Navigate complexity
- Create a collaborative project team environment
- Demonstrate leadership behaviors
- Optimize risk responses
- Effectively engage with stakeholders
- Tailor based on context
- Embrace adaptability and resiliency
- Focus on value
- Build quality into processes and deliverables
- Enable change to achieve the envisioned future state

How many of these project management principles are associated with the concept of change?

Monitor the External Business Environment	Change can bring negatives as well as positives, such as opportunities to add or extend value! - Monitor the external environment - Remain vigilant for threats - Constantly update the risk register and thresholds - Use tools - PESTLE - TECOP - VUCA	
함 * * * * * * * * * * * * * * * * * * *	6003 Popel Management leatins, loc. An ages reserved. The natural is being provided as part of a PMF curse.	87

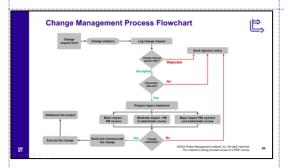
Monitor	the E	xternal	Busine	ess Envi	ronment
					





Manage Change: Overview and Controls

Notes on change controls across development approaches



Change Management Process Flowchart

Effective change control system includes:

- Forms
- Tracking methods a change log updated at each step
- Processes
- Approval levels required for authorizing or rejecting requested changes

Every change request ends in one of two ways — either it is rejected, or the project is rebalanced. Explore the change management process pathways in the diagram.

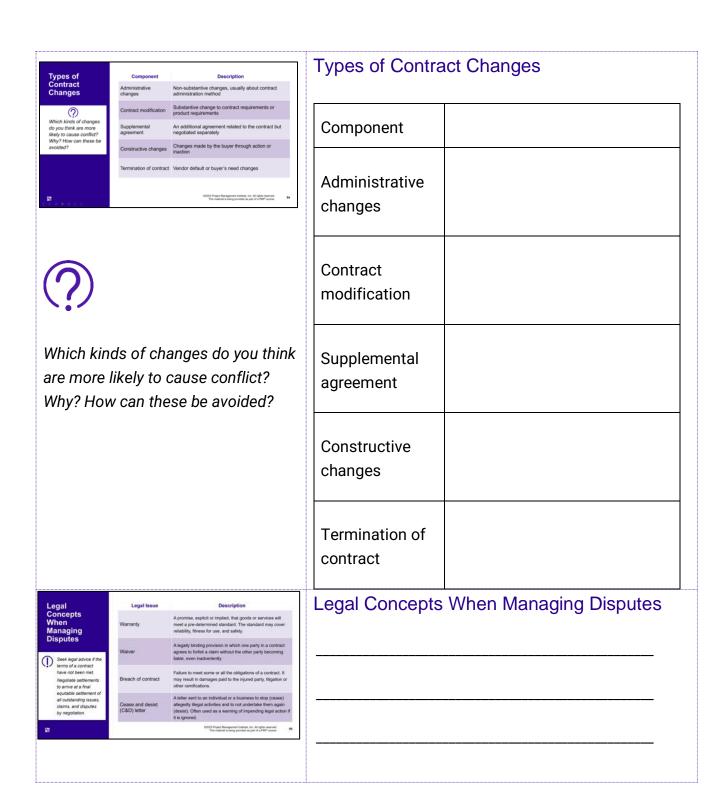


Change Requests	Change Requests: Four Types
Four Types - Carrective action - Adjusts the performance of the project work with the project management plan - Preventive action - Ensures future performance of the project work with the project management plan - Preventive action - Ensures future performance of the project work with the project management plan - Defect repair - Modifies a nonconformance within the project - A change - Modifies a project baseline	Corrective action
ESSET Prices Management Festivals, Inc. All right searmed. This areans is being presented in part of a PAP more. 90	
	Preventive action
	Defect repair
	A change



Manage Contract Changes and Resolve Problems - Work with previous in the operation (procurement, finance, functional department) and take action within the project manager or team's consumbrate and a septiment that are serious enough to cause issues may need expent help - Stock with the serious enough to cause issues may need expent help - Stock with previous and a serious enough to cause issues may need expent help - Stock with previous and of stock with the project manager's or team's consumbrate and of the serious enough to cause issues may need expent help - Stock with previous and of stock with the project manager's or team's consumbrate and of the serious enough to cause issues may need expent help - Stock with previous and stock with the project manager's or team's consumbrate and of the serious enough to cause issues may need expent help - Stock with previous and the serious enough to cause issues may need expent help - Stock with previous and the serious enough to cause issues may need expent help - Stock with previous and the serious enough to cause issues may need expent help - Stock with previous and the serious enough to cause issues may need expent help - Stock with previous and the serious enough to cause issues may need expent help - Stock with previous and the serious enough to cause issues may need expent help - Stock with previous and the serious enough to cause issues may need expent help - Stock with previous and the serious enough to cause issues may need expent help - Stock with previous and the serious enough to cause issues may need expent help - Stock with previous and the serious enough to cause issues may need expent help - Stock with previous and the serious enough to cause issues may need expent help - Stock with previous and the serious enough to cause issues may need expend the serious enough to cause issues may need expend the serious enough to cause issues may need expend the serious enough to cause issues may need expend the serious enough to cause issues may	Change Control Systems Change Control Board	Forms, tracking methods, processes, and approval levels required for authorizing or rejecting requested changes. One approval level may be the Change control board (CCB) which handles some change requests based on the approval levels documented in the change management plan. (GCD) Page 1 Requirement which, 10. A region service. The second temperature and 10. A region service.	Change Control Systems: Change Control Board Change control board
Changes and Resolve Problems - Work with the vendor to manage contract changes - Work with partners in the organization (procurement, finance, functional departments) and take action within the project manager's or team's domain/threshold - Legal problems that are serious enough to cause issues may need expert help			
	Contract Changes and Resolve Problems	Work with partners in the organization (procurement, finance, functional departments) and take action within the project manager's or team's domain/threshold Legal problems that are serious enough to cause issues may need expert help	
Contract Change Control System The system used to collect, track, adjudicate changes to a contract - Might be a component of the integrated change control or a separate organizational system - Specifically decleated to control contract changes - Specifically decleated to control contract changes - Includes documentation, dispute-resolution processes and approval levels - Contract Change Control System - Specifically decleated to control contract changes - Includes documentation, dispute-resolution processes and approval levels - Contract Change Control System - Specifically decleated to control contract changes - Includes documentation, dispute-resolution processes and approval levels	Change Control System The system used to collect, track, adjudicate and communicate changes to a contract	organizational system Specifically dedicated to control contract changes Specifies contract change Includes documentation, dispute-resolution processes and approval levels	Contract Change Control System

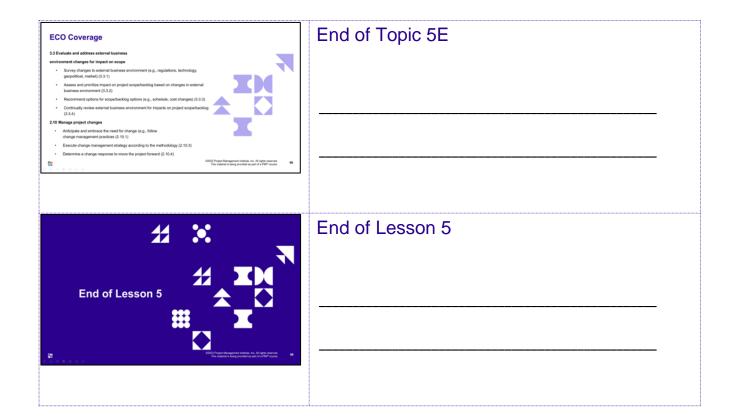






Process, Adjudicate and Communicate Claims - Contested changes and potential constructive changes, including: - Lack of agreement on compensation for change - Lack of agreement that change occurred - If not resolved, handle through alternative dispute resolution (ADR) established in contract - Settlement through negotiation is preferred - The "last resort" is Migation	Process, Adjudicate, and Communicate Claims
	What kinds of changes do you think are more likely to cause conflict? Why? How can these be avoided?
Update Project Management Plan Based on the scope of changes, you may need to update: Scope Timelines Work packages Toam member assignments Agile teams might remove lower-value deliverables from the scope for make recorn for the change.	Update Project Management Plan Describe the final steps in processing a change









Lesson 6: Closing the Project/Phase

Description

Regardless of whether the project is completed successfully or cancelled prematurely, there are several activities that should be performed to close out the work.



Learning Objectives

- Define the reasons and activities related to the closure of a phase or a project.
- Explain the benefits gained from a project or phase, and how they are managed, sustained, etc.
- Examine the reasons for knowledge transfers and how they relate to the closure of a phase or project.

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Topics

- A. Project phase/closure
- B. Benefits realization
- C. Knowledge transfer



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Lesson Notes

TOPIC 6A | PROJECT PHASE/CLOSURE

ECO Coverage

- 1.8 Negotiate project agreements
 - Verify objective(s) of the project agreement is met (1.8.3)
- 2.17 Plan and manage project/phase closure or transitions
 - Validate readiness for transition (e.g., operations team or next phase) (2.17.2)
 - Conclude activities to close out project or phase (e.g., final lessons learned, retrospectives, procurement, financial, resources) (2.17.3)



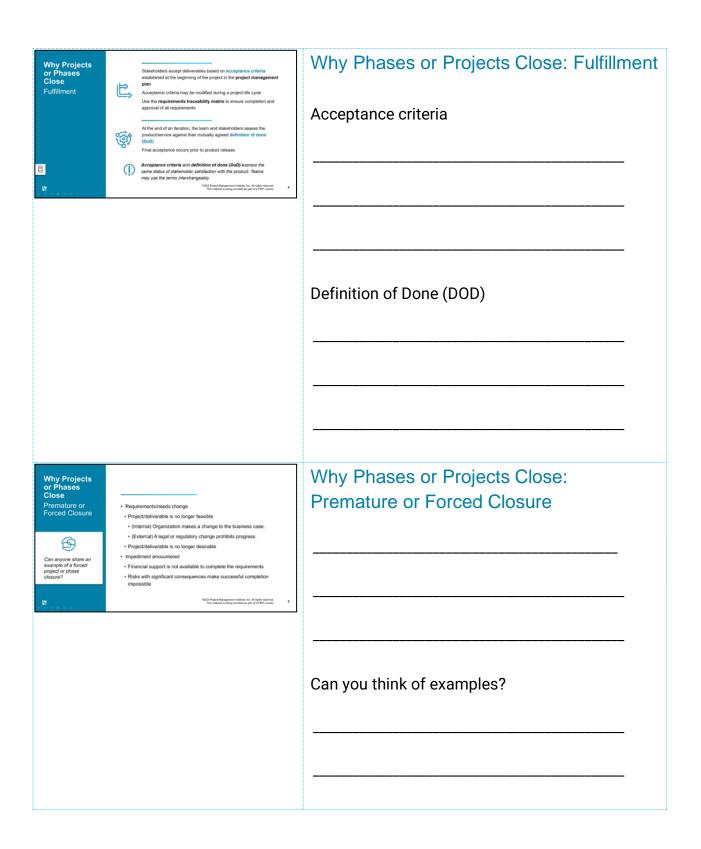
Topic 6A: Project/Phase Closure

Whether it's closure of an entire project, or an individual phase, specific activities are required. Let's start with the various reasons for closure of a phase or a project before moving on to discussing appropriate activities for the closing process.

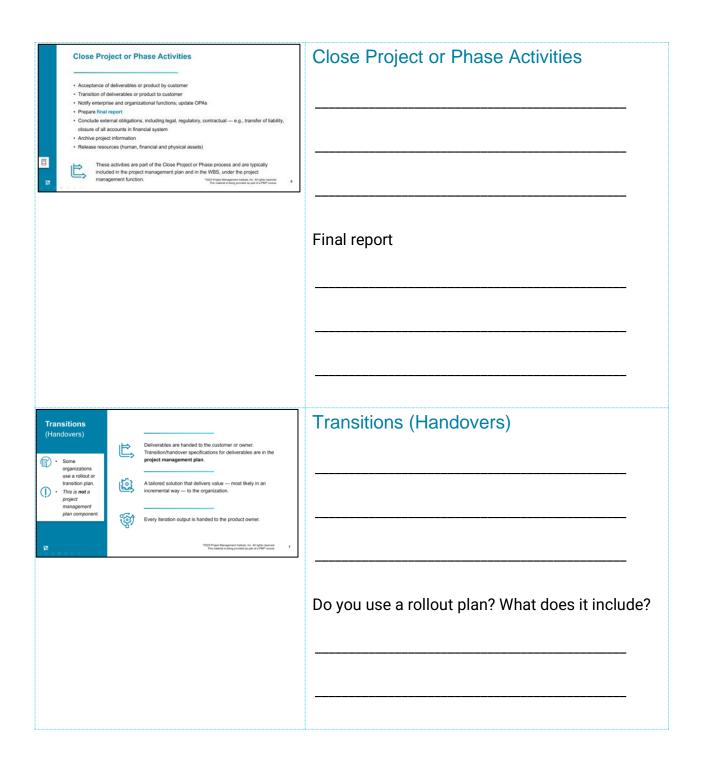
A predictive project uses a closeout process, while teams using adaptive approaches complete work and "release" the result to the customer and then continue to the next release.



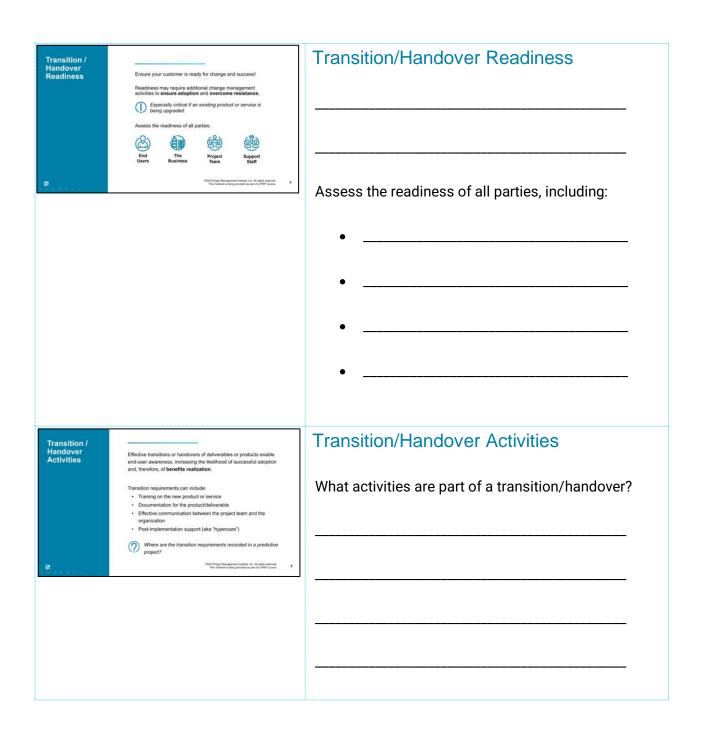
Version 3.2















Interactive/Activity

- Do you remember the difference between
 explicit and tacit knowledge?
- Discuss the importance of transferring both kinds of knowledge from the project team to the customer.

•	Give an example of how your team has
	done it in the past.



Paying and Closing Contracts - Notify the appropriate entity (usually accounts payable) when work has been fulfilled and contracts can be paid - Pay suppliers or vendors in accordance with contract terms Some payments may have been closed Some payments may have here content may have been closed	Paying and Closing Contracts
DO:	DON'T:



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Finalizing Contracts Archiving contracts means collecting, indexing and filing: Contract schedule Scope Quality Cost performance Contract change documentation Payment records and financial documents Inspection results Inspection results	Finalizing Contracts
1.8 Negotiate project agreements - Verify objective(s) of the project agreement is met (1.8.3) 2.17 Plan and manage project/phase closure or transitions - Validate readiness for transition (e.g., operations team or next phase) (2.17.2) - Conclude activities to close out project or phase (e.g., final lessons learned, retrospectives, procurement, financial, resources) (2.17.3) - This receives a final phase of a PAPAP page to the project of the receives a final phase of the phas	End of Topic 6A



TOPIC 6B | BENEFITS REALIZATION

ECO Coverage

- 3.2 Evaluate and deliver project benefits and value
 - Document agreement on ownership for ongoing benefit realization (3.2.2)
 - Verify measurement system is in place to track benefits (3.2.3)



Topic 6B: Benefits Realization

Value is delivered when the customer organization can use, or realize, the requested benefits of a project.

This is an extremely important, yet typically ignored subject. When the project is transitioned or delivered to the business, the project team is no longer involved. Benefits realization, from the perspective of the project team, is about effective planning and a delivery or release schedule that satisfies the customer's requirements.

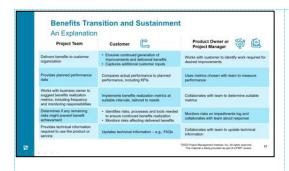


Early and Long-Term Benefits Realization Some benefits are immediate while others could take a few months to years!	Benefits accrue at various stages depending on: Project life cycle used Nature of the project work Intended outcomes Can you identify a type of project in which value is delivered very early? And a project in which value is delivered months or even years after transition? **Cost Repair Months are Africance of the Cost of t	Early and Long-Term Benefits Realization ———————————————————————————————————
		Can you identify a type of project in which value is delivered very early? ———————————————————————————————————
		And a project in which value is delivered months or even years after transition?







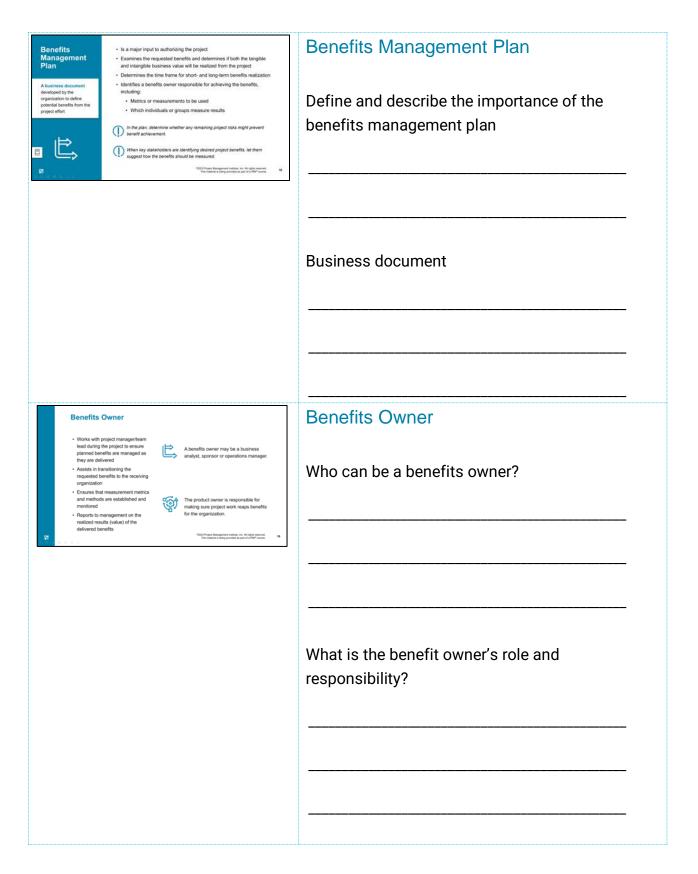


Benefits Transition and Sustainment: An Explanation

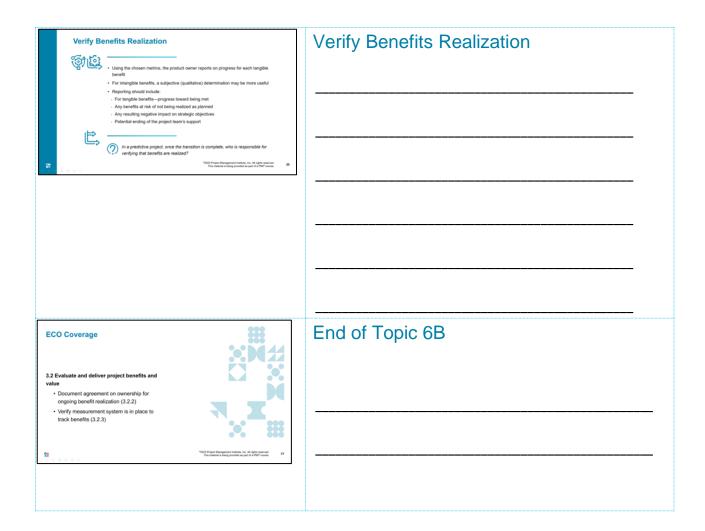
Spend some time exploring this chart that explains how project benefits can be measured and transitioned to the customer.

Project team	Customer	Product owner or project manager











TOPIC 6C | KNOWLEDGE TRANSFER

ECO Coverage

- 2.16 Ensure knowledge transfer for project continuity
 - Confirm approach for knowledge transfers (2.16.3)



Topic 6C: Knowledge Transfer

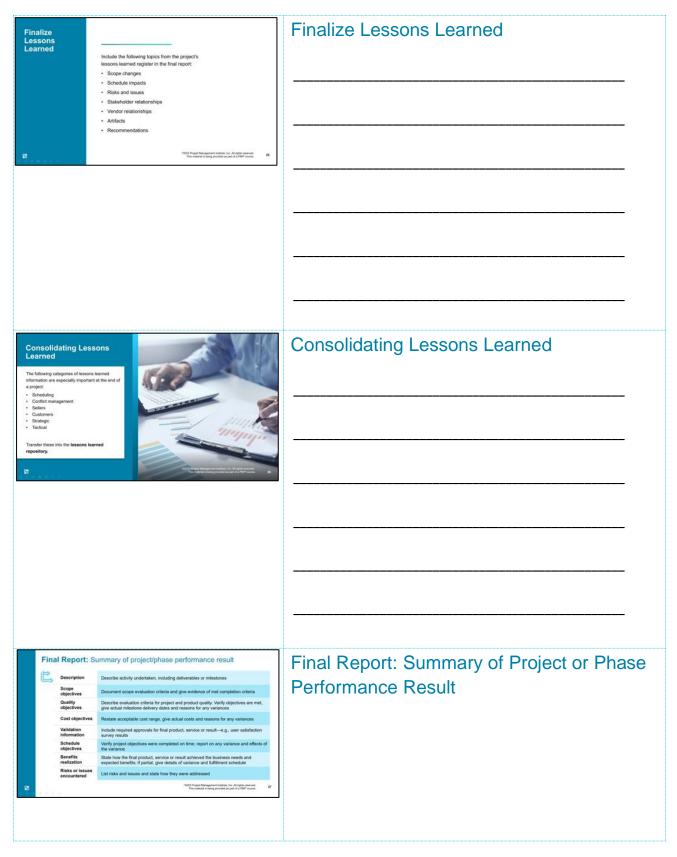
Knowledge transfer occurs between team members and stakeholders during the project, but it also becomes an asset to the organization and future projects as part of the historical project information.

This includes both the archiving of project artifacts per the OPAs as well as consolidating the individual lessons learned captured throughout the project into the organization's lessons learned repository.



Knowledge Management During Closing - Conduct retrospectives or final lessons learned meetings - Archive all groped information - Finalize lessons learned register - And the lessons learned register - And the lessons learned or the knowledge management/lessons learned to the knowledge from project stam to this outliner - Transition knowledge from project stam to this outliner - Transition knowledge from project stam to this outliner - Transition knowledge from project stam to this outliner	Knowledge Management During Closing Lessons learned register
	Lessons learned repository
Conduct Project Retrospective Internalize learning about the work product and process Capture key successes and challenges Consider qualitative (people's feelings) and quantitative (measurements) data Use data to find root causes, design countermeasures, and develop action plans for nost time Praise, congratulate and motivate the team An agile team might conduct a final retrospective, while a project manager holds a final "all-hands" meeting for the team in a predictive life cycle. These are similar ceremonies for closing a project or phase.	Conduct Project Retrospective







Description	
Scope	
objectives	
Quality	
objectives	
Cost	
objectives	
Validation	
information	
Schedule	
objectives	
Benefits	
realization	
Risks or	
issues	
encountered	



